A2575-14

BASIC PETROLEUM DATA BOOK

Petroleum Industry Statistics

Volume II, Number 1
January 1982

American
Petroleum
Institute

The American Petroleum Institute, incorporated in 1919 under the laws of the District of Columbia, serves as a forum, information bureau, technical clearing house, and national trade association for the petroleum industry.

Beginning with Volume 1, Number 1, the Basic Petroleum Data Book will be updated three times a year. Each issue will be an independent newly-printed book which can be discarded when subsequent volumes are released. This format supersedes the original loose-leaf Data Book first printed in October 1975.

BASIC PETROLEUM DATA BOOK

Table of Contents

Section I. ENERGY

Section II. RESERVES, CRUDE OIL

Section III. EXPLORATION AND DRILLING

Section IV. PRODUCTION

Section V. FINANCIAL

Section VI. PRICES

Section VII. DEMAND

Section VIII. REFINING

Section IX. IMPORTS

Section X. EXPORTS

Section XI. OFFSHORE

Section XII. TRANSPORTATION

Section XIII. NATURAL GAS

Section XIV. OPEC

Section XV. MISCELLANEOUS

BASIC PETROLEUM DATA BOOK

SECTION I. ENERGY

Table 1. World Energy Consumption and Fuel Shares: History 1960, 1973, 1978

Table 2. World Energy Consumption and Fuel Shares: Midprice Projections

Table 3. Selected United States Economic, Demographic, and Energy Indicators

Table 4. Comparisons of U.S. Energy Supply Projections for 1990

Table 5. Comparisons with Other Projections of 1990 End-Use Quantities and Prices

Table 6. United States Total Gross Consumption of Energy Resources by Major Sources

Table 7. Gross Consumption of Mineral Resources and Electricity From Hydropower and Nuclear Power In the United States

Table 8. United States Total Production of Energy Resources by Major Sources

Table 9. U.S. Production of Mineral Energy Resources and Electricity From Hydropower and Nuclear Power

Table 10. Total U.S. Gross Energy Consumption by Consuming Sector

Table 11. Total U.S. Net Energy Consumption by Consuming Sector

Table 12. United States Demand for Energy Inputs to the Industrial Sector

Table 13. United States Demand for Energy Inputs to the Household and Commercial Sector

Table 14. United States Demand for Energy Inputs in the Transportation Sector

Table 15. United States Demand for Energy Inputs for Electricity Generation by Utilities

Table 16. United States Volumes of Energy Utilized for Generation and Electric Power Consumed

Table 17. United States Sectorial Demand for Petroleum—Fuel Use vs. Non-Fuel Use

Table 18. United States Sectorial Demand for Natural Gas—Fuel Use vs. Non-Fuel Use

Table 19. United States Sectorial Demand for Coal—Fuel Use vs. Non-Fuel Use

BEST AVAILABLE COPY

World Energy Consumption and Fuel Shares: History, 1960, 1973 & 1978
[From D.O.E.'s 1980 Annual Report to Congress, Volume 3]

(Quadrillion Btu)

	1960					1973					1978				
	Total Energy Consumed	Fuel Shares (Percent)				Total Energy Consumed	Fuel Shares (Percent)				Total Energy Consumed	Fuel Shares (Percent)			
Region or Country		Coal	Oil	Gas	Other		Coal	Oil	Gas	Other		Coal	Oil	Gas	Other
United States[1]	44.2	23	45	28	4	75.1	18	47	30	5	78.8	18	49	25	8
Canada	3.9	14	49	10	27	8.1	8	46	20	26	9.0	6	42	22	30
Japan	3.9	48	36	1	15	15.3	14	79	2	5	14.9	13	73	5	9
Western Europe[2]	26.9	55	35	2	8	54.0	19	63	10	8	54.7	19	56	14	11
Finland/Norway/Sweden	1.8	13	49	0	38	3.9	5	58	0	37	4.1	5	50	2	43
United Kingdom/Ireland	8.0	70	29	0	1	10.4	35	51	11	3	10.1	34	44	17	5
Benelux/Denmark[3]	2.7	53	47	0	0	7.3	11	67	22	0	6.4	10	57	30	3
West Germany	6.2	73	25	0	2	11.5	30	58	10	2	12.0	26	54	16	4
France	3.7	51	35	3	11	8.2	15	70	7	8	8.2	15	61	11	13
Austria/Switzerland	0.9	24	34	6	36	2.0	8	58	7	27	2.1	5	53	11	31
Spain/Portugal	1.0	41	41	0	18	3.0	14	70	2	14	3.6	15	67	2	16
Italy	2.2	14	54	11	21	6.2	5	78	10	7	6.2	6	69	17	8
Greece/Turkey	0.4	41	55	0	4	1.4	21	76	0	3	1.9	30	64	0	6
Austria/New Zealand	1.4	54	43	0	3	2.9	35	50	6	9	3.5	40	42	10	8
Total OECD[2]	80.4	35	42	16	7	155.4	18	56	19	7	160.9	18	53	19	10
Total Non-OECD[2]	10.5	31	57	6	6	25.0	21	60	11	8	30.7	20	66	10	4
OPEC	1.7	3	75	21	1	5.0	1	66	30	3	6.2	0	71	24	5
Other	8.8	37	53	4	6	20.0	25	59	7	9	24.5	24	65	7	4
Total Free World[2]	90.9	35	43	15	7	180.3	18	56	18	8	191.6	18	55	18	9

[1] Includes Puerto Rico, Virgin Islands, and purchases for the Strategic Petroleum Reserve.
[2] Numbers may not add to totals due to rounding.
[3] Benelux countries are Belgium, the Netherlands, and Luxembourg.

World Energy Consumption and Fuel Shares: Base Scenario Midprice Projections* 1985, 1990 and 1995
[From D.O.E.'s 1980 Annual Report to Congress, Volume 3]

(Quadrillion Btu)

Region or Country	1985					1990					1995				
	Total Energy Consumed	Fuel Shares (Percent)				Total Energy Consumed	Fuel Shares (Percent)				Total Energy Consumed	Fuel Shares Percent			
		Coal	Oil	Gas	Other		Coal	Oil	Gas	Other		Coal	Oil	Gas	Other
United States[1]	79.6	26	40	23	11	88.0	32	36	19	13	94.7	37	32	17	14
Canada	10.0	7	36	20	37	10.9	4	34	21	41	11.8	3	33	21	43
Japan	19.3	13	62	14	11	24.1	14	54	20	12	28.2	16	51	19	14
Western Europe[2]	55.3	21	47	16	16	59.2	21	45	16	18	63.7	20	43	17	20
Finland/Norway/Sweden	4.9	5	45	1	49	5.2	5	41	2	52	5.6	4	40	2	54
United Kingdom/Ireland	9.1	35	40	19	6	9.3	33	39	19	9	9.4	33	38	19	10
Benelux/Denmark[3]	6.5	17	47	31	5	7.1	19	47	29	5	7.4	22	44	29	5
West Germany	12.4	31	42	19	8	13.3	33	38	19	10	14.2	34	36	19	11
France	8.8	15	51	11	23	9.5	14	49	11	26	10.3	11	46	13	30
Austria/Switzerland	2.1	7	42	15	36	2.3	7	40	17	36	2.4	7	37	19	37
Spain/Portugal	3.4	16	55	4	25	3.7	11	52	6	31	3.9	10	49	8	33
Italy	6.3	11	59	20	10	7.1	12	57	20	11	8.2	13	55	21	11
Greece/Turkey	1.8	27	58	1	14	2.0	19	56	1	24	2.2	18	54	0	28
Austria/New Zealand	3.7	35	40	16	9	4.1	33	38	19	10	4.6	32	38	20	10
Total OECD[2]	167.9	22	44	20	14	186.3	24	42	18	16	203.0	27	38	18	17
Total Non-OECD[2]	45.3	21	55	13	11	59.3	21	54	13	12	74.3	23	54	13	10
OPEC	10.1	1	67	31	1	13.4	1	66	32	1	16.8	1	68	30	1
Other	35.2	27	52	8	13	45.9	27	51	7	15	57.5	29	50	8	13
Total Free World[2]	213.2	22	47	18	13	245.6	23	45	17	15	277.3	26	42	16	16

*Projection ranges are based on assumed price paths for imported oil stated in 1979 constant dollars. The low price scenario assumes a delivered world oil price of $32 per barrel, the mid-range (used above) $41 per barrel, and the high range $49 per barrel.

[1] Includes Puerto Rico, Virgin Islands, and purchases for the Strategic Petroleum Reserve.

[2] Numbers may not add to totals due to rounding.

[3] Benelux countries are Belgium, the Netherlands, and Luxembourg.

SELECTED UNITED STATES ECONOMIC, DEMOGRAPHIC, AND ENERGY INDICATORS

Year	Gross National Product (Billion $1972)	Population (Millions)	Gross Energy Input[1] (Quadrillion Btu)	Gross Energy Per Dollar of 1972 GNP (Thousand Btu)	Gross Energy per capita (Million Btu)
1947	470.3	144.1	33.0	70.2	229.0
1948	489.8	146.6	33.9	69.2	231.2
1949	492.2	149.2	31.5	64.0	211.1
1950	534.8	152.3	34.0	63.6	223.2
1951	579.4	154.9	36.8	63.5	237.6
1952	600.8	157.6	36.5	60.8	231.7
1953	623.6	160.2	37.6	60.3	234.7
1954	616.1	163.0	36.3	58.9	222.7
1955	657.5	165.9	39.7	60.4	239.3
1956	671.6	168.9	41.7	62.1	246.9
1957	683.8	172.0	41.7	61.0	242.2
1958	680.9	174.9	41.7	61.2	238.4
1959	721.7	177.8	43.1	59.7	242.4
1960	737.1	180.7	44.6	60.5	246.8
1961	756.6	183.8	45.3	59.9	246.5
1962	800.3	186.5	47.4	59.2	254.1
1963	832.5	189.2	49.3	59.2	260.5
1964	876.4	191.8	51.2	58.4	266.9
1965	929.3	194.3	53.3	57.4	274.3
1966	984.8	196.6	56.4	57.3	286.9
1967	1,011.4	198.7	58.3	57.6	293.4
1968	1,058.1	200.7	61.7	58.3	307.4
1969	1,087.6	202.7	65.0	59.8	320.7
1970	1,085.6	205.1	67.1	61.8	327.2
1971	1,122.4	207.7	68.3	60.9	328.8
1972	1,185.9	209.9	71.6	60.4	341.1
1973	1,255.0	212.0	74.6	59.4	351.9
1974	1,248.0	213.9	72.7	58.3	339.9
1975	1,233.9	216.0	70.7	57.3	327.3
1976	1,300.4	218.4	74.5	57.3	341.1
1977	1,371.7	220.2	76.3	55.6	346.5
1978	1,436.9	222.6	78.2	54.4	351.3
1979	1,483.1	225.6	79.0	53.3	350.2
1980	1,480.7	227.7	76.2	51.5	334.7

---

[1] Gross energy is the total of inputs into the economy of the primary fuels (petroleum, natural gas, and coal, including imports) or their derivatives plus the generation of hydro and nuclear power converted to equivalent energy inputs.

Source: U.S. Bureau of Mines, Press Release, March 14, 1977
U.S. Department of Commerce: U.S. Bureau of Census, Current Population Reports

Comparisons of U.S. Energy Supply Projections* for 1990 [From D.O.E.'s 1980 Annual Report to Congress, Volume 3]

(Quadrillion Btu and 1979 Dollars per Million Btu)

	1978 Actual	1990 Projections						
		1980 Annual Report			Other Recent Projections			
World Oil Price (1979 dollars per barrel)	5.50	Low 32.00	Middle 41.00	High 49.00	DRI(1)	Bankers Trust(2)	Policy and Evaluation(3)	Exxon(4)
Domestic Energy Production								
Oil	20.7	18.6	19.7	20.5	21.4	19.1	17.2	15.7
Gas	19.5	16.1	16.0	15.8	17.0	17.6	17.9	15.7
Coal	15.0	30.3	30.3	30.6	27.2	28.4	26.6	20.9
Nuclear	3.0	8.0	8.0	8.0	7.3	8.5	7.4	7.0
Other	3.0	3.6	3.6	3.6	4.5	5.8	3.6	7.0(5)
Subtotal Domestic Production	61.2	76.8	77.6	78.5	77.4	79.4	75.5(6)	66.3
Oil Imports	17.1	14.1	11.1	8.8	9.4	11.6	14.3	18.8
Gas Imports	0.9	1.1	1.0	1.0	3.1	2.7	2.8	2.1
Coal Imports	−0.8	−2.7	−2.7	−2.7	−2.3	−2.6	−2.1	NA
Subtotal Net Imports	17.2	12.6	9.4	7.1	10.2	11.7	15.0	NA
Total Supply	78.4	89.3	87.0	85.6	87.6	91.1	90.5	87.2
Supply Prices								
Crude Oil (dollars per barrel)								
Domestic Wellhead	9.80	31.66	40.54	48.50	45.75	NA	NA	NA
Imported Landed U.S.	15.86	32.27	41.27	49.27	45.06	NA	NA	NA
Average Refining Acquisition	13.57	32.24	41.21	49.23	45.17	NA	NA	NA
Natural Gas (dollars per million Btu)								
Marginal Price Southwest	2.19	4.20	4.01	3.81	NA	NA	NA	NA
Coal (mine entrance, dollars per ton)								
High Sulfur Bituminous, Northern Appalachia	NA	35.22	34.92	34.92	NA	NA	NA	NA
Low Sulfur Subbituminous, Northwestern Great Plains	NA	9.40	9.40	9.40	NA	NA	NA	NA
Rate of Growth Real GNP 1979-90	NA	2.70	2.60	2.40	3.1	2.4	2.7	2.5(7)

*Projection ranges are based on assumed price paths for imported oil stated in 1979 constant dollars. The low price scenario assumes a delivered world oil price of $32 per barrel, the mid-range $41 per barrel, and the high range $49 per barrel.

(1) Data Resources Inc., *Energy Review*, Autumn 1980.

(2) Bankers Trust Company, *U.S. Energy and Capital Forecast 1980-90*, Summer 1980.

(3) Policy and Evaluation, U.S. Department of Energy, *Reducing U.S. Oil Vulnerability*, November 1980.

(4) Exxon Company, U.S.A., *Energy Outlooks 1980-2000*, December 1980.

(5) Includes shale oil, coal liquids, coal gases, alcohol, methanol, or gasoline fuels, natural gas and gas fuel liquids from very heavy oils.

(6) Includes 1.8 quadrillion Btu of biomass used by pulp and paper industry not accounted for by EIA statistics.

(7) Forecast 1979-2000.

NA = Not available.

Comparison with Other Projections of 1990 End-Use Quantities and Prices*

[From D.O.E.'s 1980 Annual Report to Congress, Volume 3]
(Quadrillion Btu per Year and 1979 Dollars per Million Btu)

	1978 Actual	1990 Projections					
		1980 *Annual Report*			Other Recent Projections		
		Low	Middle	High	DRI(1)	Shell(2)	Policy and Evaluation(3)
World Oil Price (1979 dollars per barrel)	15.50	32.00	41.00	49.00			
Sector Quantities							
Residential/Commercial Sector	18.4	18.5	18.3	18.1	20.8	18.0	19.0(4)
Electricity	4.1	5.4	5.4	5.4	6.0	5.7	5.8
Refined Petroleum Products(5)	6.7	5.0	4.8	4.6	5.5	5.1	4.9
Natural Gas	7.6	7.8	7.8	7.8	9.0	8.0	7.9
Coal	0.0	0.3	0.3	0.3	0.3	NA	NA
Industrial Sector	22.0	26.7	26.1	25.7	24.9	22.5	27.8
Electricity	2.7	4.2	4.2	4.2	3.7	3.6	4.4
Refined Petroleum Products(6)	5.5	3.8	3.6	3.5	7.8	5.5	6.5
Natural Gas(7)	7.9	9.4	9.1	9.0	7.9	6.7	9.3
Coal	3.4	6.7	6.7	6.6	5.3	4.3	5.6
Other(8)	2.5	2.6	2.5	2.4	0.2	2.4	2.0(9)
Transportation Sector(10)	20.3	19.9	18.6	17.7	17.4	20.3	18.8(11)
Fuel Oil(12)	3.7	5.2	5.1	5.0	5.7	6.1	3.9(13)
Gasoline	14.5	11.7	10.9	10.3	8.9	12.1	11.5
Jet Fuel	2.1	2.5	2.2	2.0	2.7	2.1	2.5
Total End-Use Quantity(14)	60.7	65.1	63.0	61.5	63.1	60.8	65.6
Sector Prices							
Residential Sector	5.11	8.99	9.43	9.80	NA	NA	NA
Electricity	12.75	16.59	16.98	17.36	15.69	NA	NA
Natural Gas	2.50	5.58	5.56	5.52	8.51	NA	NA
Industrial Sector	2.98	5.72	5.92	6.10	NA	NA	NA
Electricity	8.34	12.27	12.63	12.99	13.77	NA	NA
Natural Gas	1.56	4.45	4.37	4.27	7.91	NA	NA
Transportation Sector	4.94	9.52	11.19	12.66	NA	NA	NA
Gasoline	5.64	10.88	12.67	14.25	13.93	NA	NA
Jet Fuel	3.60	7.54	9.11	10.55	9.27	NA	NA

*Projection ranges are based on assumed price paths for imported oil stated in 1979 constant dollars. The low price scenario assumes a delivered world oil price of $32 per barrel, the mid-range $41 per barrel, and the high range $49 per barrel.

(1) Data Resources, Inc., *Energy Review*, Autumn 1980.

(2) Shell *Energy Outlooks*, 1990, August 1980; values interpolated from a histogram.

(3) Policy and Evaluation U.S. Department of Energy, *Reducing U.S. Oil Vulnerability*, November 1980.

(4) Includes renewable consumption of 0.4 quadrillion Btu.

(5) Includes distillate, liquid gas, residual and asphalt.

(6) Includes distillate, liquid gas, residual, raw materials, liquid gas, and refinery consumption (distillate and residual).

(7) Includes Major Fuel-Burning Installations (MFBI), non-MFBI, raw material, and refinery consumption of natural gas.

(8) Includes feedstocks, raw material, oil, and refinery consumption of still gas and oil.

(9) Includes renewable and 1.6 of existing biomass.

(10) Includes electricity and natural gas consumption.

(11) Includes alcohol fuels.

(12) Includes distillate, residual, and liquid gases.

(13) Includes distillate, residual, liquid gases, lubricants and aviation fuels.

(14) Excludes utility generation and conversion losses.

NA = Not available.

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES[1]
(Trillon Btu)

Year	Coal[2]	% of Total	Petroleum[3]	% of Total	Natural Gas Dry	% of Total	Hydro-power[4]	% of Total	Nuclear Power[4]	% of Total	Total Consumption	Annual Percentage Change	Year
1947	15,824	47.9%	11,367	34.4%	4,518	13.7%	1,326	4.0%	—	—	33,035	—	1947
1948	14,897	44.0	12,557	37.1	5,033	14.8	1,393	4.1	—	—	33,880	+2.6%	1948
1949	12,631	40.1	12,119	38.5	5,289	16.8	1,449	4.6	—	—	31,488	-7.1	1949
1950	12,913	38.0	13,489	39.7	6,150	18.1	1,440	4.2	—	—	33,992	+8.0	1950
1951	13,225	36.0	14,848	40.4	7,248	19.7	1,454	3.9	—	—	36,775	+8.2	1951
1952	11,868	32.5	15,334	42.1	7,760	21.3	1,496	4.1	—	—	36,458	-0.9	1952
1953	11,893	31.7	16,098	42.8	8,156	21.7	1,439	3.8	—	—	37,586	+3.1	1953
1954	10,195	28.1	16,132	44.5	8,548	23.6	1,388	3.8	—	—	36,263	-3.5	1954
1955	11,540	29.1	17,524	44.1	9,232	23.3	1,407	3.5	—	—	39,703	+9.5	1955
1956	11,752	28.2	18,627	44.7	9,834	23.6	1,487	3.5	—	—	41,700	+5.0	1956
1957	11,168	26.8	18,570	44.5	10,416	25.0	1,551	3.7	1	—[5]	41,706	—	1957
1958	9,849	23.6	19,214	46.1	10,995	26.4	1,636	3.9	2	—[5]	41,696	—	1958
1959	9,810	22.7	19,747	45.8	11,990	27.8	1,591	3.7	2	—[5]	43,140	+3.5	1959
1960	10,140	22.8	20,067	45.0	12,699	28.5	1,657	3.7	6	—[5]	44,569	+3.3	1960
1961	9,906	21.9	20,487	45.2	13,228	29.2	1,680	3.7	18	—[5]	45,319	+1.7	1961
1962	10,189	21.5	21,267	44.8	14,121	29.8	1,821	3.9	24	—[5]	47,422	+4.6	1962
1963	10,714	21.7	21,950	44.5	14,843	30.1	1,767	3.6	34	0.1%	49,308	+4.0	1963
1964	11,264	22.0	22,386	43.7	15,648	30.5	1,907	3.7	35	0.1	51,240	+3.9	1964
1965	11,908	22.3	23,242	43.6	16,097	30.2	2,058	3.8	38	0.1	53,343	+4.1	1965
1966	12,495	22.2	24,395	43.2	17,392	30.8	2,073	3.7	57	0.1	56,412	+5.8	1966
1967	12,256	21.1	25,335	43.5	18,250	31.3	2,344	4.0	80	0.1	58,265	+3.3	1967
1968	12,659	20.5	27,052	43.8	19,580	31.7	2,342	3.8	130	0.2	61,763	+6.0	1968
1969	12,733	19.6	28,421	43.7	21,020	32.4	2,659	4.1	146	0.2	64,979	+5.2	1969

---

[r] Revised

[p] Preliminary

[1] Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.

[2] Includes anthracite, bituminous, lignite coal, and imported coke.

[3] Petroleum products including still gas, liquefied refinery gas, and natural gas liquids.

[4] Output of hydropower (adjusted for net imports or net exports) and nuclear power converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission.

[5] Less than one-tenth of one percent.

Source: U.S. Department of the Interior 1947-1969: W. G. Dupree and J.A. West: "United States Energy Through The Year 2000," December 1972

UNITED STATES TOTAL GROSS CONSUMPTION OF ENERGY RESOURCES BY MAJOR SOURCES(1)
(Trillion Btu)

Year	Coal(2)	% of Total	Petroleum(3)	% of Total	Natural Gas Dry	% of Total	Hydro-power(4)	% of Total	Nuclear Power(4)	% of Total	Total Consumption	Annual Percentage Change	Year
1970	12,698	18.9	29,537	44.0	22,029	32.8	2,650	4.0	229	0.3	67,143	+3.3	1970
1971	12,043	17.6	30,570	44.7	22,469	32.9	2,862	4.2	404	0.6	68,348	+1.8	1971
1972	12,461	17.4	32,966	46.0	22,699	31.7	2,929	4.1	577	0.8	71,643	+4.8	1972
1973(r)	13,300	17.8	34,840	46.7	22,512	30.2	3,010	4.0	910	1.2	74,609	+4.1	1973(r)
1974(r)	12,876	17.7	33,455	46.0	21,732	29.9	3,309	4.6	1,272	1.8	72,759	−2.5	1974(r)
1975	12,823	18.1	32,731	46.3	19,948	28.2	3,219	4.6	1,900	2.7	70,707	−2.8	1975
1976(r)	13,733	18.4	35,175	47.2	20,345	27.3	3,066	4.1	2,111	2.8	74,510	+5.4	1976(r)
1977(r)	13,965	18.3	37,122	48.6	19,931	26.1	2,515	3.3	2,702	3.5	76,332	+2.5	1977(r)
1978(r)	13,846	17.7	37,965	48.6	20,000	25.6	3,164	4.1	2,977	3.8	78,150	+2.4	1978(r)
1979(r)	15,109	19.1	37,123	47.0	20,666	26.2	3,166	4.0	2,748	3.5	78,968	+1.1	1979(r)
1980(p)	15,603	20.5	34,196	44.9	20,495	26.9	3,125	4.1	2,704	3.6	76,201	−3.5	1980(p)

[r] Revised

[p] Preliminary

[1] Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.

[2] Includes anthracite, bituminous, lignite coal, and imported coke.

[3] Petroleum products including still gas, liquefied refinery gas, and natural gas liquids.

[4] Output of hydropower (adjusted for net imports or net exports) and nuclear power converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission.

[5] Figures do not total due to omission of geothermal power and electricity produced from wood and waste.

Source: U.S. Department of the Interior. 1970-1972: U.S. Bureau of Mines: Press Release, February 1977
U.S. Department of Energy: 1973-1980: Energy Information Administration, Monthly Energy Review

GROSS CONSUMPTION OF MINERAL ENERGY RESOURCES AND ELECTRICITY FROM HYDROPOWER AND NUCLEAR POWER IN THE UNITED STATES

Year	COAL[1] Short Tons *Thousand*	% Change	PETROLEUM[2] Barrels *Million*	% Change	NATURAL GAS Cubic Feet *Million*	% Change	HYDROPOWER Kilowatt-hours *Million*	% Change	NUCLEAR POWER Kilowatt-hours *Million*	% Change	Year
1947	605,443	—	1,989.8	—	4,365,608	—	84,981	—	—	—	1947
1948	570,109	- 5.8%	2,120.0	+ 6.5%	4,862,427	+11.4%	88,535	+ 4.2%	—	—	1948
1949	483,238	-15.2	2,128.0	+ 0.4	5,109,680	+ 5.1	96,361	+ 8.8	—	—	1949
1950	494,102	+ 2.2	2,375.1	+11.6	5,942,429	+16.3	102,671	+ 6.5	—	—	1950
1951	505,904	+ 2.4	2,584.2	+ 8.8	7,002,545	+17.8	106,554	+ 3.8	—	—	1951
1952	454,057	-10.2	2,671.1	+ 3.4	7,497,945	+ 7.1	111,977	+ 5.1	—	—	1952
1953	454,798	+ 0.2	2,775.3	+ 3.9	7,869,867	+ 5.0	111,625	- 0.3	—	—	1953
1954	389,960	-14.3	2,848.9	- 2.7	8,258,515	+ 4.9	113,980	+ 2.1	—	—	1954
1955	447,012	+14.6	3,100.2	+ 8.8	8,920,259	+ 8.0	120,304	+ 5.5	—	—	1955
1956	456,858	+ 2.2	3,232.9	+ 4.3	9,501,857	+ 6.5	129,775	+ 7.9	—	—	1956
1957	434,468	- 4.9	3,233.8	—	10,063,912	+ 5.9	136,959	+ 5.5	10	—	1957
1958	385,703	-11.2	3,370.9	+ 4.2	10,623,393	+ 5.6	147,581	+ 7.7	165	+1,550.0%	1958
1959	385,056	- 0.2	3,481.2	+ 3.3	11,584,909	+ 9.1	145,002	- 1.7	188	+13.9	1959
1960	398,029	+ 3.4	3,611.2	+ 3.7	12,269,341	+ 5.9	153,958	+ 6.2	518	+175.5	1960
1961	390,305	- 1.9	3,641.3	+ 0.8	12,750,043	+ 3.9	157,754	+ 2.5	1,692	+226.6	1961
1962	402,774	+ 3.2	3,796.0	+ 4.2	13,612,325	+ 6.8	172,458	+ 9.3	2,270	+34.2	1962
1963	423,325	+ 5.1	3,924.5	+ 3.4	14,341,255	+ 5.4	168,573	- 2.3	3,212	+41.5	1963
1964	445,516	+ 5.2	4,034.2	+ 2.8	15,118,174	+ 5.4	182,258	+ 8.1	3,341	+4.0	1964
1965	472,064	+ 6.0	4,202.0	+ 4.2	15,598,427	+ 3.2	196,843	+ 8.0	3,657	+ 9.5	1965
1966	497,666	+ 5.4	4,410.8	+ 5.0	16,853,606	+ 8.0	199,030	+ 1.1	5,520	+50.9	1966
1967	491,216	- 1.3	4,584.5	+ 3.9	17,684,573	+ 4.9	224,650	+12.9	7,655	+38.7	1967
1968	508,990	+ 3.6	4,901.8	+ 6.9	18,972,915	+ 7.3	225,242	+ 0.3	12,528	+63.7	1968
1969	516,084	+ 1.4	5,159.9	+ 5.3	20,387,827	+ 7.5	254,540	+13.0	13,928	+11.2	1969
1970	523,867	+ 1.5	5,364.5	+ 4.0	21,367,036	+ 4.8	252,571	- 0.8	21,801	+56.5	1970
1971[r]	502,200	- 4.1	5,552.6	+ 3.5	21,793,454	+ 2.0	273,110	+ 8.1	37,899	+73.8	1971[r]
1972[r]	522,691	+ 4.1	5,990.3	+ 7.9	22,101,452	+ 1.4	283,866	+ 3.9	54,031	+42.6	1972[r]
1973[r]	571,693	+ 9.4	6,317.3	+ 5.5	22,049,363	- 0.2	289,597	+ 2.0	83,334	+54.2	1973[r]
1974[r]	558,157[3]	- 2.4	6,078.2	- 3.8	21,223,133	- 3.7	316,920	+ 9.7	113,577	+36.3	1974[r]

---

[r] Revised

[1] Includes anthracite, bituminous and lignite coals

[2] Petroleum products refined and processed from crude oil, including still gas, liquefied refinery gas and natural gas liquids.

[3] Excludes 2,262,000 tons of net imports of coke.

Source: U.S. Department of the Interior. 1947-1969: W.G. Dupree, Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972
1970-1974: U.S. Bureau of Mines, "Crude Petroleum, Petroleum Products, and Natural Gas Liquids: December 1975" (Supplement) and February 1977 Press Release

October 1977

GROSS CONSUMPTION OF MINERAL ENERGY RESOURCES AND ELECTRICITY FROM HYDROPOWER AND NUCLEAR POWER IN THE UNITED STATES

Year	COAL[1] Short Tons *Thousand*	% Change	PETROLEUM[2] Barrels *Million*	% Change	NATURAL GAS Cubic Feet *Million*	% Change	HYDROPOWER Kilowatt-hours *Million*	% Change	NUCLEAR POWER Kilowatt-hours *Million*	% Change	Year
1975[r]	561,409[3]	+0.6%	5,957.5	-2.0%	19,537,593	-7.9%	310,999	-1.9%	171,924	+51.4%	1975[r]
1976[p]	602,418	+7.3	6,383.2	+7.1	19,800,000	+1.3	295,110	-5.1	190,600	+10.9	1976[p]

[r] Revised

[p] Preliminary

[1] Includes anthracite, bituminous and lignite coals

[2] Petroleum products refined and processed from crude oil, including still gas, liquefied refinery gas and natural gas liquids

[3] Excludes 546,000 tons of net imports of coke.

Source: U.S. Department of the Interior: U.S. Bureau of Mines, "Crude Petroleum, Petroleum Products, and Natural Gas Liquids: December 1976" (Supplement)

Note: CONSISTENT DATA NOT AVAILABLE AFTER 1976

October 1977

Section I
Table 7a

UNITED STATES TOTAL PRODUCTION OF ENERGY RESOURCES BY MAJOR SOURCE
(Trillion Btu)

Year	Coal[1]	% of Total	Petroleum	% of Total	Natural Gas	% of Total	Hydro-power	% of Total	Nuclear Power	% of Total	Total Domestic Gross Energy Inputs	Total Domestic Gross Energy Consumption	Total Gross Energy Production as a % of Gross Energy Consumption	Year
1947	17,975	51.3%	10,771	30.7%	5,012	14.3%	1,296	3.7%	—	—	35,054	33,035	106.1%	1947
1948	17,158	47.8	11,717	32.7	5,615	15.7	1,369	3.8	—	—	35,859	33,880	105.8	1948
1949	12,557	41.1	10,683	34.9	5,911	19.3	1,425	4.7	—	—	30,576	31,488	97.1	1949
1950	14,647	42.7	11,449	33.3	6,841	19.9	1,415	4.1	—	—	34,352	33,992	101.1	1950
1951	15,066	40.0	13,037	34.7	8,106	21.5	1,424	3.8	—	—	37,633	36,775	102.3	1951
1952	13,262	36.1	13,282	36.2	8,705	23.7	1,466	4.0	—	—	36,715	36,458	100.7	1952
1953	12,767	34.5	13,671	37.0	9,116	24.7	1,413	3.8	—	—	36,967	37,586	98.4	1953
1954	11,001	31.1	13,427	38.1	9,488	26.9	1,360	3.9	—	—	35,276	36,263	97.3	1954
1955	12,745	32.6	14,445	37.0	10,532	26.9	1,360	3.5	—	—	39,082	39,703	98.4	1955
1956	13,747	32.9	15,344	36.7	11,252	26.9	1,435	3.5	—	—	41,778	41,700	100.2	1956
1957	13,444	31.9	15,346	36.5	11,885	28.2	1,422	3.4	1	—[2]	42,098	41,706	100.9	1957
1958	11,201	28.6	14,154	36.1	12,244	31.3	1,592	4.0	2	—[2]	39,193	41,696	94.0	1958
1959	11,105	27.3	14,662[3]	36.0	13,361[3]	32.9	1,551[3]	3.8	2	—[2]	40,681	43,140	94.3	1959
1960	11,140	26.8	14,664[4]	35.3	14,135[4]	34.0	1,608[4]	3.9	6	—[2]	41,553	41,569	93.2	1960
1961	10,751	25.4	15,185	35.9	14,691	34.8	1,656	3.9	18	—[2]	42,301	45,319	93.3	1961
1962	11,211	25.5	15,495	35.3	15,365	35.0	1,816	4.1	24	0.1%	43,911	47,422	92.6	1962
1963	12,176	26.5	15,741	34.2	16,271	35.4	1,768	3.8	34	0.1	45,990	49,308	93.3	1963
1964	12,854	27.0	15,691	32.9	17,138	36.0	1,886	4.0	35	0.1	47,604	51,240	92.9	1964
1965	13,395	27.3	15,930	32.4	17,652	36.0	2,059	4.2	38	0.1	49,074	53,343	92.0	1965
1966	13,836	26.7	16,925	32.6	18,984	36.6	2,062	4.0	57	0.1	51,864	56,412	91.9	1966
1967	14,215	25.9	18,100	33.0	20,087	36.6	2,347	4.3	80	0.2	54,829	58,265	94.1	1967
1968	13,955	24.7	18,593	32.9	21,548	38.1	2,349	4.1	130	0.2	56,575	61,763	91.6	1968
1969	14,223	24.2	18,886	32.2	22,838	38.9	2,648	4.5	146	0.2	58,741	64,979	90.4	1969
1970	15,067	24.1	20,401	32.6	24,154	38.7	2,630	4.2	229	0.4	62,481	67,143	93.1	1970
1971[r]	13,607	22.1	20,033	32.5	24,805	40.2	2,825	4.6	404	0.6	61,674	68,348	90.2	1971[r]
1972[r]	14,500	23.1	20,041	31.9	24,792	39.5	2,866	4.6	576	0.9	62,775	71,609	87.7	1972[r]
1973[r]	14,382	23.1	19,493	31.2	24,764	39.7	2,860	4.6	888	1.4	62,387	74,555	83.7	1973[r]
1974[r]	14,487	23.7	18,575	30.4	23,689	38.7	3,177	5.2	1,211	2.0	61,139	72,668	84.1	1974[r]

[r] Revised

[1] Includes anthracite, bituminous and lignite coals.

[2] Less than one-tenth of one percent

[3] Includes Alaska

[4] Denotes first year for which figures include Alaska and Hawaii

Source: U.S. Department of the Interior. 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972
1970-1974: U.S. Bureau of Mines, Press Release

October 1977

UNITED STATES TOTAL PRODUCTION OF ENERGY RESOURCES BY MAJOR SOURCE
(Trillion Btu)

Year	Coal(1)	% of Total	Petroleum	% of Total	Natural Gas(2)	% of Total	Hydro-power	% of Total	Nuclear power	% of Total	Total Domestic Gross Energy Inputs(3)	Total Domestic Gross Energy Consumption	Total Gross Energy Inputs as a % of Gross Energy Consumption	Year
1975	15,189	25.3%	17,729	29.5%	22,014	36.7%	3,155	5.3%	1,900	3.2%	60,059	70,707	84.9%	1975
1976	15,853	25.9	17,262	28.7	21,807	36.3	2,976	5.0	2,111	3.5	60,090	74,509	80.7	1976
1977	15,829	26.3	17,454	28.5	21,892	36.3	2,337	3.9	2,702	4.5	60,297	76,390	78.9	1977
1978	15,037	24.6	18,434	30.1	21,730	35.5	2,962	4.8	2,977	4.9	61,208	78,154	78.3	1978
1979(r)	17,526	27.5	18,104	28.4	22,306	35.0	2,957	4.6	2,748	4.3	63,729	79,060	80.6	1979(r)
1980(p)	18,744	29.0	18,234	28.2	21,911	33.9	2,899	4.5	2,727	4.2	64,631	76,140	84.9	1980(p)

(r) Revised

(p) Preliminary

(1) Includes anthracite, bituminous and lignite coals

(2) Includes natural gas plant liquids

(3) Figures do not total due to omission of geothermal power and electricity produced from wood and waste.

Source: U.S. Department of Energy, Energy Information Administration, Monthly Energy Review

U.S. PRODUCTION OF MINERAL ENERGY RESOURCES AND ELECTRICITY FROM HYDROPOWER AND NUCLEAR POWER

Year	COAL1/ Net Short Tons *Thousand*	% Change	PETROLEUM Barrels *Million*	% Change	NATURAL GAS Net Unprocessed Cubic Feet *Million*	% Change	HYDROPOWER Kilowatt-hours *Million*	% Change	NUCLEAR POWER Kilowatt-hours *Million*	% Change	Year
1947	687,814	—%	1,857	—%	4,582,173	—%	83,066	—%	—	—%	1947
1948	656,658	− 4.5	2,020	+ 8.8	5,148,020	+12.3	86,992	+ 4.7	—	—	1948
1949	480,570	−26.8	1,842	− 8.8	5,419,736	+ 5.3	94,773	+ 8.9	—	—	1949
1950	560,390	+16.6	1,974	+ 7.2	6,262,060	+15.5	100,885	+ 6.4	—	—	1950
1951	576,335	+ 2.8	2,248	+13.9	7,457,359	+19.1	104,376	+ 3.5	—	—	1951
1952	507,424	−12.0	2,290	+ 1.9	8,013,457	+ 7.5	109,708	+ 5.1	—	—	1952
1953	488,239	− 3.8	2,357	+ 2.9	8,396,916	+ 4.8	109,617	− 0.1	—	—	1953
1954	420,790	−13.8	2,315	− 1.8	8,742,546	+ 4.1	111,640	+ 1.8	—	—	1954
1955	490,838	+16.6	2,484	+ 7.3	9,405,351	+ 7.6	116,236	+ 4.1	—	—	1955
1956	529,774	+ 7.9	2,617	+ 5.4	10,081,923	+ 7.2	125,227	+ 7.7	—	—	1956
1957	518,042	− 2.2	2,617	—	10,680,258	+ 5.9	125,130	− 0.1	10	—	1957
1958	431,617	−16.7	2,499	− 4.5	11,030,298	+ 3.3	143,581	+14.7	165	+1,550.0	1958
1959	432,677	+ 0.2	2,575	+ 3.0	12,046,115	+ 9.2	141,395	− 1.5	188	+13.9	1959
1960	434,329	+ 0.4	2,575	—	12,771,038	+ 6.0	149,423	+ 5.7	518	+175.5	1960
1961	420,423	− 3.2	2,622	+ 1.8	13,254,025	+ 3.8	155,550	+ 4.1	1,692	+226.6	1961
1962	439,042	+ 4.4	2,676	+ 2.1	13,876,622	+ 4.7	171,922	+10.5	2,270	+34.2	1962
1963	477,195	+ 8.7	2,753	+ 2.9	14,746,661	+ 6.3	168,694	− 1.9	3,212	+41.5	1963
1964	504,182	+ 5.7	2,787	+ 1.2	15,546,592	+ 5.4	180,302	+ 6.9	3,343	+ 4.1	1964
1965	526,954	+ 4.5	2,849	+ 2.2	16,039,753	+ 3.2	196,599	+ 9.0	3,644	+ 9.0	1965
1966	546,822	+ 3.8	3,028	+ 6.3	17,206,628	+ 7.3	197,938	+ 0.7	5,520	+51.5	1966
1967	564,882	+ 3.3	3,216	+ 6.2	18,171,325	+ 5.6	224,949	+13.6	7,655	+38.7	1967
1968	556,706	− 1.4	3,329	+ 3.5	19,322,400	+ 6.3	225,873	+ 0.4	12,528	+63.7	1968
1969	570,978	+ 2.6	3,372	+ 1.3	20,698,240	+ 7.1	253,468	+12.2	13,928	+11.2	1969
1970r/	612,661	+ 7.3	3,517	+ 4.3	21,920,642	+ 5.9	250,611	− 1.1	31,801	+128.3	1970r/
1971r/	560,919	− 8.5	3,454	− 1.8	22,493,012	+ 2.6	269,580	+ 7.6	37,899	+19.2	1971r/
1972	602,492	+ 7.4	3,455	—	22,531,698	+ 0.2	276,122	+ 2.4	54,031	+42.6	1972
1973r/	598,568	− 0.7	3,361	− 2.7	22,647,549	+ 0.5	275,319	− 0.3	83,334	+54.2	1973r/
1974r/	610,023	+ 1.9	3,203	− 4.7	21,600,522	− 4.6	303,985	+10.4	112,740	+35.3	1974r/

---

r/ Revised

1/ Includes anthracite, bituminous and lignite coals

Source: U.S. Department of the Interior. 1947-1969: W.G. Dupree, Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972
1970-1974: U.S. Bureau of Mines, "Crude Petroleum, Petroleum Products, and Natural Gas Liquids: December 1975" (Supplement)

July 1976

U.S. PRODUCTION OF MINERAL ENERGY RESOURCES AND ELECTRICITY FROM HYDROPOWER AND NUCLEAR POWER

Year	COAL[1] Net Short Tons *Thousand*	% Change	PETROLEUM Barrels *Million*	% Change	NATURAL GAS Net Unprocessed Cubic Feet *Million*	% Change	HYDROPOWER Kilowatt-hours *Million*	% Change	NUCLEAR POWER Kilowatt-hours *Million*	% Change	Year
1975[r]	654,641	+7.3%	3,057	-4.6%	20,108,661	-6.9%	304,814	+0.2%	171,924	+51.4%	1975[r]
1976[p]	671,200	+2.5	2,972	-2.8	19,800,000	-1.5	287,110	-5.8	190,600	+10.9	1976[p]

[r] Revised
[p] Preliminary
[1] Includes anthracite, bituminous and lignite coals

Source: U.S. Department of the Interior. U.S. Bureau of Mines, "Crude Petroleum, Petroleum Products, and Natural Gas Liquids: December 1976" (Supplement)

Note: CONSISTENT DATA NOT AVAILABLE AFTER 1976

TOTAL U.S. GROSS ENERGY CONSUMPTION BY CONSUMING SECTOR[1]
(Trillion Btu)

Year	Household and Commercial	% of Total	Industrial	% of Total	Transportation	% of Total	Electrical Generation	% of Total	Miscellaneous and Unaccounted for	% of Total	Total Consumption[2]	Year
1947	6,775	20.5%	12,795	38.7%	8,791	26.6%	4,264	12.9%	410	1.3%	33,035	1947
1948	7,039	20.8	12,322	36.4	8,781	25.9	4,724	13.9	1,014	3.0	33,880	1948
1949	6,884	21.9	11,369	36.1	8,075	25.6	4,616	14.7	544	1.7	31,488	1949
1950	7,593	22.3	12,325	36.3	6,616	25.3	4,981	14.7	477	1.4	33,992	1950
1951	7,857	21.4	13,698	37.2	9,206	25.0	5,281	14.4	733	2.0	36,775	1951
1952	7,979	21.9	13,098	35.9	9.168	25.2	5,518	15.1	695	1.9	36,458	1952
1953	7,757	20.6	13,752	36.6	9,205	24.5	5,891	15.7	981	2.6	37,586	1953
1954	7,968	22.0	12,515	34.5	9,113	25.1	5,940	16.4	727	2.0	36,263	1954
1955	8,595	21.6	13,991	35.2	9,826	24.8	6,595	16.6	696	1.8	39,703	1955
1956	8,963	21.5	14,588	35.0	10,132	24.3	7,082	17.0	935	2.2	41,700	1956
1957	8,685	20.8	14,503	34.8	10,229	24.5	7,330	17.6	959	2.3	41,706	1957
1958	9,467	22.7	13,507	32.4	10,275	24.6	7,317	17.6	1,130	2.7	41,696	1958
1959	9,711	22.5	14,040	32.5	10,387	24.1	7,873	18.3	1,129	2.6	43,140	1959
1960	10,174	22.8	14,642	32.9	10,818	24.3	8,263	18.5	672	1.5	44,569	1960
1961	10,373	22.9	14,631	32.3	10,986	24.2	8,537	18.8	792	1.8	45,319	1961
1962	10,948	23.1	15,249	32.2	11,415	24.0	9,093	19.2	717	1.5	47,422	1962
1963	11,016	22.3	15,908	32.3	11,962	24.3	9,683	19.6	739	1.5	49,308	1963
1964	11.143	21.7	16,698	32.6	12,261	23.9	10,375	20.3	763	1.5	51,240	1964
1965	11,830	22.2	17,176	32.2	12,714	23.8	11,075	20.8	548	1.0	53,343	1965
1966	12,388	22.0	18,028	32.0	13,345	23.6	12,054	21.4	597	1.0	56,412	1966
1967	13,014	22.3	18,230	31.3	14,015	24.1	12,728	21.8	278	0.5	58,265	1967
1968	13,109	21.2	19,363	31.4	15,156	24.5	13,892	22.5	243	0.4	61,763	1968
1969	13,606	20.9	20,107	30.9	15,784	24.3	15,254	23.5	228	0.4	64,979	1969
1970	13,988	20.8	20,225	30.1	16,473	24.6	16,242	24.2	215	0.3	67,143	1970
1971[r]	14,549	21.3	19,299	28.2	17,076	25.0	17,222	25.2	205	0.3	68,348	1971[r]
1972[r]	14,917	20.8	19,835	27.7	18,081	25.3	18,543	25.9	233	0.3	71,609	1972[r]
1973[r]	14,626	19.6	20,945	28.1	18,939	25.4	19,814	26.6	231	0.3	74,555	1973[r]
1974[r]	13,915	19.2	20,089	27.6	18,421	25.4	19,999	27.5	245	0.3	72,668	1974[r]

---

[r] Revised

[1] Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.

[2] Data may not add to totals because of independent rounding.

Source: U.S. Department of the Interior. 1947-1969: W.G. Dupree and J.A. West, "United States Energy Through The Year 2000," December 1972.
1970: U.S. Bureau of Mines, Minerals Yearbook 1973
1971-1974: U.S. Bureau of Mines, Press Release, February 1977

TOTAL U.S. GROSS CONSUMPTION BY CONSUMING SECTOR(1)
(Trillion Btu)

Year	Household and Commercial	% of Total	Industrial	% of Total	Transportation	% of Total	Electrical Generation	% of Total	Miscellaneous and Unaccounted for	% of Total	Total Consumption(2)	Year
1975(r)	13,612	19.3	18,539	26.2	18,143	25.7	20,414	28.9	NA	—	70,707	1975(r)
1976(r)	14,395	19.3	19,543	26.2	19,028	25.5	21,544	28.9	NA	—	74,510	1976(r)
1977	13,931	18.3	19,876	26.0	19,701	25.8	22,825	29.9	NA	—	76,332	1977
1978	14,141	18.1	20,004	25.6	20,583	26.3	23,421	30.0	NA	—	78,150	1978
1979	13,128	16.6	21,695	27.5	19,916	25.2	24,229	30.7	NA	—	78,968	1979
1980(p)	12,167	16.0	20,634	27.1	18,592	24.4	24,807	32.6	NA	—	76,201	1980(p)

(r) Revised

(p) Preliminary

(1) Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, processing, and transportation of energy power.

(2) Data may not add to totals because of independent rounding.

Source: U.S. Department of Energy, Monthly Energy Review

TOTAL U.S. NET ENERGY CONSUMPTION[1] BY CONSUMING SECTOR
(Trillion Btu)

Year	Household and Commercial	% of Total Net Energy	Industrial	% of Total Net Energy	Transportation	% of Total Net Energy	Miscellaneous	% of Total Net Energy	Total Net Energy Consumption	Gross Energy Consumption[2]	Conversion Efficiency Percentage[3]	Year
1947	7,148	24.1%	13,254	44.7%	8,820	29.8%	410	1.4%	29,632	33,035	89.7%	1947
1948	7,480	24.8	12,822	42.6	8,808	29.2	1,014	3.4	30,124	33,880	88.9	1948
1949	7,372	26.5	11,854	42.5	8,100	29.1	544	1.9	27,870	31,488	88.5	1949
1950	8,139	27.0	12,884	42.7	8,640	28.7	477	1.6	30,140	33,992	88.7	1950
1951	8,471	25.8	14,354	43.8	9,229	28.2	733	2.2	32,787	36,775	89.2	1951
1952	8,645	26.8	13,780	42.7	9,190	28.4	695	2.1	32,310	36,458	88.6	1952
1953	8,490	25.6	14,517	43.7	9,225	27.8	981	2.9	33,213	37,586	88.4	1953
1954	8,765	27.4	13,317	41.7	9,131	28.6	727	2.3	31,940	36,263	88.1	1954
1955	9,449	27.0	14,999	42.9	9,845	28.1	696	2.0	34,989	39,703	88.1	1955
1956	9,898	27.0	15,701	42.8	10,149	27.7	935	2.5	36,683	41,700	88.0	1956
1957	9,704	26.6	15,636	42.8	10,244	28.0	959	2.6	36,543	41,706	87.6	1957
1958	10,562	28.9	14,609	39.9	10,291	28.1	1,130	3.1	36,592	41,696	87.8	1958
1959	10,914	28.9	15,225	40.5	10,404	27.6	1,129	3.0	37,702	43,140	87.4	1959
1960	11,436	29.4	15,948	41.0	10,836	27.9	672	1.7	38,892	44,569	87.3	1960
1961	11,758	29.8	15,937	40.3	11,005	27.9	792	2.0	39,492	45,319	87.1	1961
1962	12,438	30.2	16,651	40.4	11,443	27.7	717	1.7	42,753	47,422	87.0	1962
1963	12,661	29.6	17,372	40.6	11,981	28.0	739	1.7	42,753	49,308	86.7	1963
1964	12,935	29.2	18,242	41.3	12,281	27.8	763	1.7	44,221	51,240	86.3	1964
1965	13,778	30.0	18,810	41.0	12,732	27.8	548	1.2	45,868	53,343	86.0	1965
1966	14,489	30.0	19,816	41.1	13,361	27.7	597	1.2	48,263	56,412	85.6	1966
1967	15,271	30.7	20,098	40.5	14,032	28.2	278	0.6	49,679	58,265	85.3	1967
1968	15,576	29.7	21,407	40.8	15,174	29.0	243	0.5	52,400	61,763	84.8	1968
1969	16,358	29.9	22,262	40.7	15,801	28.9	228	0.5	54,649	64,979	84.1	1969
1970	16,988	30.3	22,434	40.0	16,489	29.4	215	0.3	56,126	67,143	83.6	1970
1971[r]	17,758	31.3	21,592	38.1	17,093	30.2	205	0.4	56,648	68,348	82.9	1971[r]
1972[r]	18,395	31.2	22,328	37.8	18,098	30.6	233	0.4	59,054	71,609	82.5	1972[r]
1973[r]	18,349	30.0	23,589	38.6	18,954	31.0	231	0.4	61,123	74,555	82.0	1973[r]
1974[r]	17,641	29.9	22,759	38.5	18,437	31.2	245	0.4	59,082	72,668	81.3	1974[r]

---

[r] Revised

[1] Net energy is the sector inputs (household and commercial, industrial, transportation, plus miscellaneous) and consists of direct fuels and purchased electricity.

[2] Gross energy is the total of inputs into the economy of primary fuels (petroleum, natural gas, and coal, including imports) or their derivatives plus the generation of hydro and nuclear power converted to equivalent energy inputs.

[3] The conversion efficiency factor is the percent of total gross energy going into the sectors.

Source: U.S. Department of the Interior. 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972
1970-1974: U.S. Bureau of Mines, Press Release

TOTAL U.S. NET ENERGY CONSUMPTION[1] BY CONSUMING SECTOR
(Trillion Btu)

Year	Household and Commercial	% of Total Net Energy	Industrial	% of Total Net Energy	Transportation	% of Total Net Energy	Miscellaneous	% of Total Net Energy	Total Net Energy Consumption	Gross Energy Consumption[2]	Conversion Efficiency Percentage[3]	Year
1975[r]	17,552	30.8%	20,531	36.1%	18,545	32.6%	278	0.5%	56,906	70,580	80.6%	1975[r]
1976[p]	18,832	31.6	21,209	35.6	19,331	32.4	227	0.4	59,600	73,999	80.5	1976[p]

[r] Revised
[p] Preliminary

[1] Net energy is the sector inputs (household and commercial, industrial, transportation, plus miscellaneous), and consists of direct fuels and purchased electricity.

[2] Gross energy is the total of inputs into the economy of primary fuels (petroleum, natural gas, and coal, including imports) or their derivatives, plus the generation of hydro and nuclear power converted to equivalent energy inputs.

[3] The conversion efficiency factor is the percent of total gross energy going into the sectors.

Source: U.S. Department of the Interior: U.S. Bureau of Mines, "Annual U.S. Energy Use Up in 1976," March 14, 1977 (Press Release)

Note: CONSISTENT DATA NOT AVAILABLE AFTER 1976

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE INDUSTRIAL SECTOR

	COAL 1/			PETROLEUM 2/			NATURAL GAS			ELECTRICITY PURCHASED 3/			TOTAL ENERGY INPUTS	
Year	Short Tons Thousand	Trillion Btu	% of Total	Barrels Million	Trillion Btu	% of Total	Cubic Feet Million	Trillion Btu	% of Total	Kilowatt-hours Billion	Trillion Btu	% of Total	Trillion Btu	Year
1947	273,403	7,298	55.1%	418.3	2,490	18.8%	2,905,571	3,007	22.7%	135	459	3.4%	13,254	1947
1948	244,214	6,516	50.8	427.0	2,530	19.7	3,164,928	3,276	25.6	147	500	3.9	12,822	1948
1949	208,919	5,571	47.0	415.6	2,466	20.8	3,219,197	3,332	28.1	142	485	4.1	11,854	1949
1950	223,507	5,957	46.3	442.4	2,641	20.5	3,601,757	3,727	28.9	164	559	4.3	12,884	1950
1951	238,776	6,403	44.6	516.1	3,044	21.2	4,107,117	4,251	29.6	192	656	4.6	14,354	1951
1952	211,146	5,673	41.2	515.0	3,034	22.0	4,242,986	4,391	31.9	200	682	4.9	13,780	1952
1953	226,865	6,105	42.0	524.7	3,093	21.3	4,389,128	4,554	31.4	224	765	5.3	14,517	1953
1954	179,148	4,860	36.5	529.8	3,118	23.4	4,383,197	4,537	34.1	235	802	6.0	13,317	1954
1955	214,946	5,726	38.2	566.7	3,330	22.2	4,768,562	4,935	32.9	295	1,008	6.7	14,999	1955
1956	217,810	5,805	37.0	626.6	3,688	23.5	4,922,139	5,095	32.4	326	1,113	7.1	15,701	1956
1957	213,404	5,695	36.4	595.8	3,478	22.2	5,150,413	5,330	34.1	332	1,133	7.3	15,636	1957
1958	175,600	4,675	32.0	570.3	3,292	22.5	5,352,294	5,540	37.9	323	1,102	7.6	14,609	1958
1959	169,924	4,530	29.7	625.1	3,589	23.5	5,720,756	5,921	38.8	356	1,215	8.0	15,255	1959
1960	175,225	4,673	29.3	643.9	3,682	23.1	6,074,114	6,287	39.4	383	1,306	8.2	15,948	1960
1961	168,090	4,478	28.1	642.6	3,682	23.1	6,221,668	6,471	40.6	383	1,306	8.2	15,937	1961
1962	169,995	4,527	27.2	678.8	3,880	23.3	6,579,008	6,842	41.1	411	1,402	8.4	16,651	1962
1963	178,201	4,754	27.4	702.0	3,994	23.0	6,917,738	7,160	41.2	429	1,464	8.4	17,372	1963
1964	189,561	5,063	27.8	744.6	4,184	22.9	7,198,706	7,451	40.8	453	1,544	8.5	18,242	1964
1965	200,688	5,366	28.5	740.4	4,139	22.0	7,433,200	7,671	40.8	479	1,634	8.7	18,810	1965
1966	204,945	5,472	27.6	781.0	4,353	22.0	7,948,486	8,203	41.4	524	1,788	9.0	19,816	1966
1967	194,595	5,199	25.9	798.4	4,432	22.0	8,332,614	8,599	42.8	547	1,868	9.3	20,098	1967
1968	191,602	5,124	23.9	897.2	4,965	23.2	8,987,095	9,274	43.3	599	2,044	9.6	21,407	1968
1969	188,586	5,051	22.7	943.6	5,171	23.2	9,587,670	9,885	44.4	632	2,155	9.7	22,262	1969

1/ Includes anthracite, bituminous, and lignite coals

2/ Includes bunkers and military transportation

3/ Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior. 1947-1969: W.G. Dupree Jr. and J. A. West, "United States Energy Through The Year 2000," December 1972

July 1976

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE INDUSTRIAL SECTOR

	COAL (1)			PETROLEUM (2)			NATURAL GAS			ELECTRICITY PURCHASED (3)			TOTAL ENERGY INPUTS	
Year	Short Tons Thousand	Trillion Btu	% of Total	Barrels Million	Trillion Btu	% of Total	Cubic Feet Million	Trillion Btu	% of Total	Kilowatt-hours Billion	Trillion Btu	% of Total	Trillion Btu	Year
1970	186,637	5,002	22.3	940.4	5,061	22.6	9,856,844	10,161	45.3	648	2,210	9.8	22,434	1970
1971	158,866	4,303	19.9	947.9	5,088	23.6	9,577,212	9,874	45.7	682	2,327	10.8	21,592	1971
1972	160,624	4,275	19.1	1,058.2	5,643	25.3	9,622,659	9,882	44.3	741	2,528	11.3	22,328	1972
1973(r)	162,072	4,350	18.3	1,255.0	6,683	25.1	10,193,137	10,397	43.7	696	2,376	10.0	23,798	1973(r)
1974(r)	155,321	4,057	17.6	1,226.6	6,506	28.3	9,777,344	10,012	43.5	695	2,370	10.3	23,004(4)	1974(r)
1975(r)	147,268	3,801	18.2	1,161.4	6,160	29.6	8,363,725	8,531	40.9	685	2,336	11.2	20,842(5)	1975(r)
1976(r)	146,579	3,792	17.2	1,302.7	6,951	31.5	8,604,514	8,768	39.7	750	2,558	11.6	22,069	1976(r)
1977	139,037	3,494	15.5	1,432.9	7,692	34.2	8,480,864	8,642	38.4	782	2,668	11.9	22,511(6)	1977
1978	138,093	3,462	15.2	1,460.2	7,840	34.5	8,405,512	8,540	37.6	810	2,764	12.2	22,737(7)	1978
1979	145,291	3,641	14.8	1,761.1	9,401	38.3	8,402,750	8,554	34.8	852	2,907	11.8	24,569(8)	1979
1980(p)	127,840	3,320	14.2	1,646.3	8,857	37.8	8,302,257	8,460	36.1	825	2,814	12.0	23,451	1980(p)

(r) Revised

(p) Preliminary

(1) Includes anthracite, bituminous, and lignite coals.

(2) Includes bunkers and military transportation.

(3) Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

(4) Includes 2,269,000 tons of imported coke, equivalent to 59 trillion Btu.

(5) Includes 538,000 tons of imported coke, equivalent to 14 brillion Btu.

(6) Includes 577,000 tons of imported coke, equivalent to 15 trillion Btu.

(7) Includes 5,038,000 tons of imported coke, equivalent to 131 trillion Btu.

(8) Includes 2,538,000 tons of imported coke, equivalent to 66 trillion Btu.

Source: U.S. Department of the Interior: 1970-1972: U.S. Bureau of Mines, Press Release, February 1977
U.S. Department of Energy. 1973-1980: Energy Information Administration, Monthly Energy Review

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE HOUSEHOLD AND COMMERCIAL SECTOR

	COAL 1/			PETROLEUM 2/			NATURAL GAS			ELECTRICITY PURCHASED 3/			TOTAL ENERGY INPUTS	
Year	Short Tons Thousand	Trillion Btu	% of Total	Barrels Million	Trillion Btu	% of Total	Cubic Feet Million	Trillion Btu	% of Total	Kilowatt-hours Billion	Trillion Btu	% of Total	Trillion Btu	Year
1947	128.657	3.399	47.4%	385.3	2.251	31.4%	1,087,000	1,125	15.7%	115	391	5.5%	7.166	1947
1948	122,994	3.238	43.3	436.0	2.539	33.9	1.219.402	1.262	16.9	130	442	5.9	7.481	1948
1949	114.639	3.025	41.0	425.5	2.472	33.6	1.340.362	1.387	18.8	143	483	6.6	7.372	1949
1950	110.422	2.913	35.8	526.2	3.038	37.3	1.586.207	1.642	20.2	160	546	6.7	8.139	1950
1951	100.057	2.648	31.2	552.0	3.202	37.8	1.939.034	2.007	23.7	180	615	7.3	8.472	1951
1952	91,212	2.416	27.9	577.1	3.350	38.8	2.137.635	2.213	25.6	195	666	7.7	8.645	1952
1953	77,976	2.072	24.4	585.4	3.391	40.0	2.216.153	2.294	27.0	215	733	8.6	8.490	1953
1954	65.425	1,752	20.0	630.4	3.650	41.6	2,478.205	2.566	29.3	234	797	9.1	8.765	1954
1955	66.039	1,745	18.5	691.7	4.001	42.3	2,753.171	2.849	30.2	250	854	9.0	9.449	1955
1956	61.685	1.629	16.5	721.8	4.183	42.3	3.044.435	3.151	31.8	274	935	9.4	9.898	1956
1957	46.382	1.225	12.6	703.4	4.069	41.9	3.276.185	3.391	35.0	299	1.019	10.5	9.704	1957
1958	45.005	1.187	11.2	788.3	4.568	43.3	3.586.025	3.712	35.1	321	1.095	10.4	10.562	1958
1959	35.700	969	8.9	817.5	4,718	43.2	3.887.708	4.024	36.9	353	1.203	11.0	10.914	1959
1960	37.180	983	8.6	853.3	4.923	43.1	4.123.389	4.268	37.3	370	1.262	11.0	11.436	1960
1961	32.805	868	7.4	871.9	5.028	42.7	4.325.427	4.477	38.1	406	1.385	11.8	11.758	1961
1962	32.955	872	7.0	907.7	5.227	42.0	4.685.231	4.849	39.0	437	1.490	12.0	12.438	1962
1963	27.603	731	5.8	915.0	5.258	41.5	4.856.804	5.027	39.7	482	1.645	13.0	12.661	1963
1964	22.949	609	4.7	903.7	5.191	40.1	5.162.009	5.343	41.3	525	1.792	13.9	12.935	1964
1965	25.676	678	4.9	978.0	5.635	40.9	5.346.450	5.517	40.1	571	1.948	14.1	13.778	1965
1966	25.587	677	4.7	1.000.1	5.766	39.8	5.760.999	5.945	41.0	616	2.101	14.5	14.489	1966
1967	22.134	585	3.8	1,078.9	6.206	40.6	6.029.855	6.223	40.8	661	2.257	14.8	15.271	1967
1968	19.983	529	3.4	1.069.5	6.129	39.4	6.250.997	6.451	41.4	723	2.467	15.8	15.576	1968
1969	16.875	447	2.8	1.099.6	6.269	38.3	6.682.804	6.890	42.1	807	2.752	16.8	16.358	1969

1/ Includes anthracite, bituminous, and lignite coals

2/ Includes bunkers and military transportation

3/ Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior. 1947-1969: W.G. Dupree Jr. and J. A. West, "United States Energy Through The Year 2000," December 1972

July 1976

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE HOUSEHOLD AND COMMERCIAL SECTOR

	COAL[1]			PETROLEUM[2]			NATURAL GAS			ELECTRICITY PURCHASED[3]			TOTAL ENERGY INPUTS	
Year	Short Tons Thousand	Trillion Btu	% of Total	Barrels Million	Trillion Btu	% of Total	Cubic Feet Million	Trillion Btu	% of Total	Kilowatt-hours Billion	Trillion Btu	% of Total	Trillion Btu	Year
1970	16,114	427	2.5	1,128.4	6,453	38.0	6,984,007	7,108	41.8	879	3,000	17.7	16,988	1970
1971	15,201	406	2.3	1,124.9	6,430	36.2	7,480,667	7,713	43.4	940	3,209	18.1	17,758	1971
1972	11,708	308	1.7	1,168.4	6,666	36.2	7,733,964	7,943	43.2	1,019	3,478	18.9	18,395	1972
1973(r)	11,028	291	1.6	1,185.5	6,741	37.1	7,476,470	7,626	42.0	1,024	3,495	19.3	18,153	1973(r)
1974(r)	11,217	293	1.7	1,081.0	6,141	35.2	7,341,797	7,518	43.1	1,018	3,475	19.9	17,427	1974(r)
1975(r)	9,260	239	1.4	1,024.2	5,792	33.7	7,432,352	7,581	44.1	1,052	3,588	20.9	17,200	1975(r)
1976	8,775	227	1.3	1,113.2	6,302	34.8	7,719,333	7,866	43.4	1,093	3,729	20.6	18,124	1976
1977	8,953	225	1.3	1,102.6	6,245	35.0	7,321,884	7,461	41.8	1,154	3,936	22.0	17,867	1977
1978	9,972	250	1.4	1,103.1	6,268	34.4	7,503,937	7,624	41.8	1,202	4,100	22.5	18,242	1978
1979	8,380	210	1.2	888.0	5,027	29.0	7,751,473	7,891	45.6	1,226	4,184	24.2	17,312	1979
1980(p)	6,392	166	1.0	774.9	4,365	26.4	7,494,603	7,637	46.2	1,276	4,354	26.4	16,522	1980(p)

(r) Revised
(p) Preliminary

[1] Includes anthracite, bituminous, and lignite coals.

[2] Includes bunkers and military transportation.

[3] Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

Source: U.S. Department of the Interior. 1970: U.S. Bureau of Mines, Minerals Yearbook 1972
1971-1972: U.S. Bureau of Mines, Press Release, February 1977
1973-1980: U.S. Department of Energy, Monthly Energy Review

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE TRANSPORTATION SECTOR

	COAL1/			PETROLEUM2/			NATURAL GAS			ELECTRICITY PURCHASED3/			TOTAL ENERGY INPUTS	
Year	Short Tons Thousand	Trillion Btu	% of Total	Barrels Million	Trillion Btu	% of Total	Cubic Feet Million	Trillion Btu	% of Total	Kilowatt-hours Billion	Trillion Btu	% of Total	Trillion Btu	Year
1947	113,324	3,030	34.4%	1,050.3	5,761	65.3%	Neg.	—	—%	8	29	0.3%	8,820	1947
1948	98,295	2,624	29.8	1,126.6	6,157	69.9	Neg.	—	—	8	27	0.3	8,808	1948
1949	70,915	1,892	23.4	1,137.8	6,183	76.3	Neg.	—	—	7	25	0.3	8,100	1949
1950	63,783	1,701	19.7	1,248.8	6,785	78.5	125,546	130	1.5	7	24	0.3	8,640	1950
1951	56,903	1,525	16.5	1,377.5	7,482	81.1	192,496	199	2.2	7	23	0.2	9,229	1951
1952	40,428	1,086	11.8	1,451.3	7,868	85.6	207,207	214	2.3	6	22	0.3	9,190	1952
1953	30,074	809	8.8	1,511.5	8,158	88.4	230,314	238	2.6	6	20	0.2	9,225	1953
1954	19,060	516	5.7	1,551.4	8,358	91.5	230,615	239	2.6	6	18	0.2	9,131	1954
1955	17,429	464	4.7	1,691.4	9,109	92.5	245,246	253	2.6	6	19	0.2	9,845	1955
1956	14,187	378	3.7	1,756.2	9,448	93.1	295,972	306	3.0	5	17	0.2	10,149	1956
1957	10,126	270	2.6	1,832.0	9,649	94.2	299,235	310	3.0	4	15	0.2	10,244	1957
1958	5,015	133	1.3	1,825.1	9,819	95.4	312,221	323	3.1	5	16	0.2	10,291	1958
1959	3,861	102	1.0	1,849.4	9,923	95.4	349,348	362	3.5	5	17	0.1	10,404	1959
1960	3,294	87	0.8	1,934.1	10,372	95.7	347,075	359	3.3	5	18	0.2	10,836	1960
1961	770	21	0.8	1,971.9	10,575	96.1	377,607	390	3.5	6	19	0.2	11,005	1961
1962	687	18	0.2	2,051.3	11,001	96.2	382,496	396	3.5	5	18	0.1	11,433	1962
1963	670	18	0.1	2,146.7	11,506	96.0	423,783	438	3.7	6	19	0.2	11,981	1963
1964	711	19	0.1	2,198.9	11,791	96.0	435,570	451	3.7	6	20	0.2	12,281	1964
1965	655	18	0.1	2,271.9	12,179	95.7	500,524	517	4.1	5	18	0.1	12,732	1965
1966	609	16	0.1	2,382.6	12,777	95.6	535,353	552	4.2	5	16	0.1	13,361	1966
1967	467	13	0.1	2,497.1	13,408	95.6	575,752	594	4.2	5	17	0.1	14,032	1967
1968	417	11	0.1	2,703.8	14,535	95.8	590,965	610	4.0	5	18	0.1	15,174	1968
1969	313	8	0.1	2,815.8	15,125	95.7	630,962	651	4.1	5	17	0.1	15,801	1969

1/ Includes anthracite, bituminous, and lignite coals

2/ Includes bunkers and military transportation

3/ Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt- hour.

Source: U.S. Department of the Interior. 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972

July 1976

UNITED STATES
DEMAND FOR ENERGY INPUTS IN THE TRANSPORTATION SECTOR

	COAL[1]			PETROLEUM[2]			NATURAL GAS			ELECTRICITY PURCHASED[3]			TOTAL ENERGY INPUTS	
Year	Short Tons Thousand	Trillion Btu	% of Total	Barrels Million	Trillion Btu	% of Total	Cubic Feet Million	Trillion Btu	% of Total	Kilowatt-hours Billion	Trillion Btu	% of Total	Trillion Btu	Year
1970	298	8	—[4]	2,923.8	15,720	95.4	772,166	745	4.5	5	16	0.1	16,489	1970
1971	207	6	—[4]	3,035.1	16,304	95.4	742,592	766	4.5	5	17	0.1	17,093	1971
1972	163	4	—[4]	3,217.5	17,290	95.5	766,156	787	4.3	5	17	0.1	18,098	1972
1973[r]	112	3	—[4]	3,287.3	17,745	95.9	728,431	743	4.0	3	9	—[4]	18,500	1973[r]
1974[r]	38	1	—[4]	3,207.7	17,309	96.1	666,945	685	3.8	3	9	—[4]	18,004	1974[r]
1975[r]	0	0	—[4]	3,252.5	17,547	96.7	583,333	595	3.3	3	10	—[4]	18,152	1975[r]
1976[r]	0	0	—[4]	3,420.2	18,469	97.0	548,577	559	2.9	3	10	—[4]	19,038	1976[r]
1977	0	0	—[4]	3,545.0	19,157	97.2	532,875	543	2.8	3	10	—[4]	19,710	1977
1978	0	0	—[4]	3,703.6	20,044	97.3	530,512	539	2.6	3	9	—[4]	20,592	1978
1979	0	0	—[4]	3,564.7	19,303	96.9	601,179	612	3.1	3	10	—[4]	19,925	1979
1980[p]	0	0	—[4]	3,308.7	17,987	96.7	594,701	606	3.3	3	11	—[4]	18,604	1980[p]

[r] Revised

[p] Preliminary

[1] Includes anthracite, bituminous, and lignite coals.

[2] Includes bunkers and military transportation.

[3] Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

[4] Less than one-tenth of one percent.

Source: U.S. Department of the Interior: 1970-1972: U.S. Bureau of Mines, Press Release, February 1977
U.S. Department of Energy: 1973-1980: Energy Information Administration, Monthly Energy Review

UNITED STATES
DEMAND FOR ENERGY INPUTS FOR ELECTRICITY GENERATION BY UTILITIES

Year	COAL[1] Short Tons Thousands	COAL[1] Trillion Btu	COAL[1] % of Total	PETROLEUM Barrels Million	PETROLEUM Trillion Btu	PETROLEUM % of Total	NATURAL GAS Cubic Feet Million	NATURAL GAS Trillion Btu	NATURAL GAS % of Total	HYDROPOWER[2] Kilowatt-hours Million	HYDROPOWER[2] Trillion Btu	HYDROPOWER[2] % of Total	NUCLEAR POWER Kilowatt-hours Million	NUCLEAR POWER Trillion Btu	NUCLEAR POWER % of Total	TOTAL ENERGY INPUTS Trillion Btu	Year
1947	89,531	2,084	48.9%	75.5	468	11.0%	373,037	386	9.0%	84,981	1,326	31.1%	—	—	—	4,264	1947
1948	99,586	2,392	50.6	71.7	444	9.4	478,097	495	10.5	88,535	1,393	29.5	—	—	—	4,724	1948
1949	83,964	2,021	43.8	92.7	577	12.5	550,121	569	12.3	96,361	1,449	31.4	—	—	—	4,616	1949
1950	91,871	2,228	44.7	106.3	662	13.3	628,919	651	13.1	102,671	1,440	28.9	—	—	—	4,981	1950
1951	105,768	2,537	48.0	80.1	499	9.5	763,898	791	15.0	106,554	1,454	27.5	—	—	—	5,281	1951
1952	107,071	2,588	46.9	78.8	492	8.9	910,117	942	17.1	111,977	1,496	27.1	—	—	—	5,518	1952
1953	115,883	2,805	47.6	92.3	577	9.8	1,034,272	1,070	18.2	111,625	1,439	24.4	—	—	—	5,891	1953
1954	118,401	2,866	48.2	76.8	480	8.1	1,165,498	1,206	20.3	113,980	1,388	23.4	—	—	—	5,940	1954
1955	143,759	3,482	52.8	81.9	512	7.8	1,153,280	1,194	18.1	120,304	1,407	21.3	—	—	—	6,595	1955
1956	158,279	3,815	53.9	79.4	497	7.0	1,239,311	1,283	18.1	129,775	1,487	21.0	—	—	—	7,082	1956
1957	160,761	3,881	52.9	81.9	512	7.0	1,338,079	1,385	18.9	136,959	1,551	21.2	10	1	—[3]	7,330	1957
1958	155,714	3,743	51.2	82.4	515	7.0	1,372,853	1,421	19.4	147,581	1,636	22.4	165	2	—[3]	7,317	1958
1959	168,427	4,050	51.4	87.2	546	7.0	1,627,097	1,684	21.4	145,002	1,591	20.2	188	2	—[3]	7,873	1959
1960	176,633	4,251	51.4	90.1	564	6.8	1,724,763	1,785	21.6	153,958	1,657	20.1	518	6	0.1%	8,263	1960
1961	182,138	4,374	51.2	92.1	577	6.8	1,825,341	1,889	22.1	157,754	1,680	19.7	1,692	17	0.2	8,537	1961
1962	193,128	4,636	51.0	92.4	579	6.4	1,965,590	2,034	22.4	172,458	1,821	20.0	2,270	23	0.2	9,093	1962
1963	211,193	5,065	52.3	95.7	600	6.2	2,142,930	2,218	22.9	168,573	1,767	18.3	3,212	33	0.3	9,683	1963
1964	225,271	5,395	52.0	101.4	636	6.1	2,321,889	2,403	23.2	182,258	1,907	18.4	3,341	34	0.3	10,375	1964
1965	244,887	5,843	52.8	118.6	744	6.7	2,318,253	2,392	21.6	196,843	2,058	18.6	3,657	38	0.3	11,075	1965
1966	266,394	6,327	52.5	144.2	905	7.5	2,608,768	2,692	22.3	199,030	2,073	17.2	5,520	57	0.5	12,054	1966
1967	273,970	6,457	50.7	161.3	1,013	8.0	2,746,352	2,834	22.3	224,650	2,344	18.4	7,655	80	0.6	12,728	1967
1968	296,942	6,994	50.3	188.0	1,181	8.5	3,143,858	3,245	23.4	225,242	2,342	16.9	12,528	130	0.9	13,892	1968
1969	310,310	7,227	47.4	259.8	1,628	10.7	3,486,391	3,594	23.6	254,540	2,659	17.4	13,928	146	0.9	15,254	1969
1970	322,357	7,261	44.7	333.8	2,087	12.9	3,894,019	4,015	24.7	252,571	2,650	16.3	21,801	229	1.4	16,242	1970
1971[r]	327,926	7,330	42.6	407.1	2,543	14.8	3,992,983	4,117	23.9	269,899	2,828	16.4	37,899	404	2.3	17,222	1971[r]
1972[r]	350,196	7,836	42.3	503.7	3,134	16.9	3,978,673	4,086	22.0	280,470	2,911	15.7	54,032	576	3.1	18,543	1972[r]
1973[r]	388,321	8,618	43.5	587.4	3,656	18.4	3,605,333	3,681	18.6	285,975	2,971	15.0	83,292	888	4.5	19,814	1973[r]
1974[r]	391,566	8,520	42.6	559.9	3,480	17.4	3,429,231	3,512	17.6	313,733	3,276	16.4	113,602	1,211	6.0	19,999	1974[r]

---

[r] Revised

[1] Includes anthracite, bituminous and lignite coals

[2] Includes net inputs and negligible amount of hydropower generated by industrial establishments

[3] Less than one-tenth of one percent

Source: U.S. Department of the Interior. 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972
1970-1974: U.S. Bureau of Mines, Minerals Yearbook 1975

UNITED STATES
DEMAND FOR ENERGY INPUTS FOR ELECTRICITY GENERATION BY UTILITIES

	COAL(1)			PETROLEUM			NATURAL GAS			HYDROPOWER(2)			NUCLEAR POWER			TOTAL ENERGY INPUTS (3)	
Year	Short Tons Thousands	Trillion Btu	% of Total	Barrels Million	Trillion Btu	% of Total	Cubic Feet Million	Trillion Btu	% of Total	Kilowatt hours Million	Trillion Btu	% of Total	Kilowatt hours Million	Trillion Btu	% of Total	Trillion Btu	Year
1975 (r)	405,494	8,783	43.0	518.7	3,231	15.8	3,158,869	3,241	15.9	306,266	3,187	15.6	172,523	1,900	9.3	20,414	1975 (r)
1976 (r)	447,856	9,714	45.1	554.0	3,454	16.0	3,082,111	3,153	14.6	292,297	3,032	14.1	191,093	2,111	9.8	21,544	1976 (r)
1977	476,955	10,245	44.9	646.4	4,028	17.7	3,192,420	3,285	14.4	237,853	2,482	10.9	250,905	2,702	11.8	22,825	1977
1978	476,222	10,134	43.3	612.3	3,813	15.9	3,188,588	3,297	14.1	300,144	3,132	13.4	276,442	2,977	12.7	23,421	1978
1979	526,567	11,258	46.5	543.2	3,392	14.0	3,491,296	3,610	14.9	300,144	3,132	12.9	255,177	2,748	11.3	24,229	1979
1980 (p)	568,606	12,117	48.9	465.0	2,988	12.0	3,680,583	3,791	15.3	296,311	3,092	12.5	251,091	2,704	10.9	24,807	1980 (p)

(r) Revised

(p) Preliminary

(1) Includes anthracite, bituminous and lignite coals

(2) Includes net inputs and negligible amount of hydropower generated by industrial establishments

(3) Total includes small amounts of geothermal power and electricity from wood and waste

Source: U.S. Department of Energy, Monthly Energy Review

UNITED STATES
VOLUMES OF ENERGY UTILIZED FOR GENERATION AND ELECTRIC POWER CONSUMED
(Trillion Btu)

	GROSS ENERGY INPUT[1]						ELECTRICITY PURCHASED[2]					
Year	Coal	Petroleum	Natural Gas	Hydro-power	Nuclear Power	Total	Household and Commercial	Industrial	Transpor-tation	Total	Conversion Efficiency Percentage[3]	Year
1947	2,084	468	386	1,326	—	4,264	391	459	29	879	20.6%	1947
1948	2,392	444	495	1,393	—	4,724	442	500	27	969	20.5	1948
1949	2,021	577	569	1,449	—	4,616	488	485	25	998	21.6	1949
1950	2,228	662	651	1,440	—	4,981	546	559	24	1,129	22.7	1950
1951	2,537	499	791	1,454	—	5,281	615	656	23	1,294	24.5	1951
1952	2,588	492	942	1,496	—	5,518	666	682	22	1,370	24.8	1952
1953	2,805	577	1,070	1,439	—	5,891	733	765	20	1,518	25.8	1953
1954	2,866	480	1,206	1,388	—	5,940	797	802	18	1,617	27.2	1954
1955	3,482	512	1,194	1,407	—	6,595	854	1,008	19	1,881	28.5	1955
1956	3,815	497	1,283	1,487	—	7,082	935	1,113	17	2,065	29.2	1956
1957	3,881	512	1,385	1,551	1	7,330	1,019	1,133	15	2,167	29.6	1957
1958	3,743	515	1,421	1,636	2	7,317	1,095	1,102	16	2,213	30.2	1958
1959	4,050	546	1,684	1,591	2	7,873	1,203	1,215	17	2,435	30.9	1959
1960	4,251	564	1,785	1,651	6	8,257	1,262	1,306	18	2,586	31.3	1960
1961	4,374	577	1,889	1,680	17	8,537	1,385	1,306	19	2,710	31.7	1961
1962	4,636	579	2,034	1,821	23	9,093	1,490	1,402	18	2,910	32.0	1962
1963	5,065	600	2,218	1,767	33	9,683	1,645	1,464	19	3,128	32.3	1963
1964	5,395	636	2,403	1,907	34	10,375	1,792	1,544	20	3,356	32.3	1964
1965	5,843	744	2,392	2,058	38	11,075	1,948	1,634	18	3,600	32.5	1965
1966	6,327	905	2,692	2,073	57	12,054	2,101	1,788	16	3,905	32.4	1966
1967	6,457	1,013	2,834	2,344	80	12,728	2,257	1,868	17	4,142	32.5	1967
1968	6,994	1,181	3,245	2,342	130	13,892	2,467	2,044	18	4,529	32.6	1968
1969	7,227	1,628	3,594	2,659	146	15,254	2,752	2,155	17	4,924	32.3	1969

---

[1] Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, and transportation of energy power processing.

[2] Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

[3] The conversion efficiency factor is the percent of total gross energy going into the sectors.

Source: U.S. Department of the Interior. 1947-1969: W.G. Dupree, Jr. and J.A. West, "United States Energy Through the Year 2000," December 1972

UNITED STATES
VOLUMES OF ENERGY UTILIZED FOR GENERATION AND ELECTRIC POWER CONSUMED
(Trillion Btu)

	GROSS ENERGY INPUT[1]						ELECTRICITY PURCHASED[2]					
Year	Coal	Petroleum	Natural Gas	Hydro-power	Nuclear Power	Total	Household and Commercial	Industrial	Transportation	Total	Conversion Efficiency Percentage[3]	Year
1970	7,261	2,087	4,015	2,650	229	16,242	3,000	2,210	16	5,226	32.2%	1970
1971[r]	7,330	2,543	4,117	2,828	404	17,222	3,209	2,293	17	5,519	32.0	1971[r]
1972[r]	7,836	3,134	4,086	2,911	576	18,543	3,478	2,493	17	5,988	32.3	1972[r]
1973[r]	8,618	3,656	3,681	2,971	888	19,814	3,723	2,644	15	6,382	32.2	1973[r]
1974[r]	8,520	3,480	3,512	3,276	1,211	19,999	3,726	2,670	16	6,412	32.1	1974[r]
1975[r]	8,760	3,239	3,213	3,194	1,833	20,239	3,970	2,580	16	6,566	32.4	1975[r]
1976[p]	9,691	3,479	3,134	3,031	2,032	21,367	4,143	2,810	16	6,969	32.6	1976[p]

---

[r] Revised

[p] Preliminary

[1] Gross energy is that contained in all types of commercial energy at the time it is incorporated in the economy, whether the energy is produced domestically or imported. Gross energy comprises inputs of primary fuels (or their derivatives), and outputs of hydropower and nuclear power converted to theoretical energy inputs. Gross energy includes the energy used for the production, and transportation of energy power processing.

[2] Utility electricity, generated and imported, distributed on basis of historical series in the Edison Electric Institute Yearbook. Conversion of electricity to energy equivalent was made at the value of contained energy corresponding to 100-percent efficiency using a theoretical rate of 3,412 Btu per kilowatt-hour.

[3] The conversion efficiency factor is the percent of total gross energy going into the sectors.

Source: U.S. Department of the Interior. 1970-1974: U.S. Bureau of Mines, Press Release
1975-1976: U.S. Bureau of Mines, "Annual U.S. Energy Use Up in 1976," March 14, 1977 (Press Release)

Note: CONSISTENT DATA NOT AVAILABLE AFTER 1976

UNITED STATES
SECTORIAL DEMAND FOR PETROLEUM[1]—FUEL USE vs NON-FUEL USE
(Millions of barrels)

	HOUSEHOLD AND COMMERCIAL			INDUSTRIAL			TRANSPORTATION									
Year	Fuel Use	Non-Fuel Use	Total	Fuel Use	Non-Fuel Use	Total	Fuel Use	Non-Fuel Use	Total	Electrical Generation	Miscel-laneous	Total Non-Fuel Use	Total Fuel Use	Total Input	Non-fuel Use as a % of Total Input	Year
1947	336.2	49.1	385.3	344.7	73.6	418.3	1,050.3	N.A.	1,050.3	75.5	60.4	122.7	1,867.1	1,989.8	6.2%	1947
1948	378.0	58.0	436.0	348.6	78.4	427.0	1,126.4	N.A.	1,126.4	71.7	58.9	136.4	1,983.6	2,120.0	6.4	1948
1949	368.4	57.1	425.5	341.7	73.9	415.6	1,137.8	N.A.	1,137.8	92.7	56.4	131.0	1,997.0	2,128.0	6.2	1949
1950	460.6	65.6	526.2	363.3	79.1	442.4	1,248.8	N.A.	1,248.8	106.3	51.4	144.7	2,230.4	2,375.1	6.1	1950
1951	479.7	72.3	552.0	415.9	100.2	516.1	1,377.5	N.A.	1,377.5	80.1	58.5	172.5	2,411.7	2,584.2	6.7	1951
1952	499.2	77.9	577.1	417.0	98.0	515.0	1,451.3	N.A.	1,451.3	78.8	48.9	175.9	2,495.2	2,671.1	6.6	1952
1953	506.6	78.8	585.4	427.9	96.8	524.7	1,511.5	N.A.	1,511.5	92.3	61.4	175.6	2,599.7	2,775.3	6.3	1953
1954	546.6	83.8	630.4	421.3	108.5	529.8	1,551.4	N.A.	1,551.4	76.8	60.5	192.3	2,656.6	2,848.9	6.7	1954
1955	599.0	92.7	691.7	455.6	111.1	566.7	1,691.4	N.A.	1,691.4	81.9	68.5	203.8	2,896.4	3,100.2	6.6	1955
1956	622.4	99.4	721.8	495.0	131.6	626.6	1,756.2	N.A.	1,756.2	79.4	48.9	231.0	3,001.9	3,232.9	7.1	1956
1957	607.4	96.0	703.4	449.5	146.3	595.8	1,832.0	N.A.	1,832.0	81.9	20.7	242.3	2,991.5	3,233.8	7.5	1957
1958	686.0	102.3	788.3	421.0	149.3	570.3	1,825.1	N.A.	1,825.1	82.4	104.8	251.6	3,119.3	3,370.9	7.5	1958
1959	708.8	108.7	817.5	445.6	179.5	625.1	1,849.4	N.A.	1,849.4	87.2	102.0	288.2	3,193.0	3,481.2	8.3	1959
1960	742.7	110.6	853.3	444.3	199.6	643.9	1,934.1	N.A.	1,934.1	90.1	89.8	310.2	3,301.0	3,611.2	8.6	1960
1961	758.4	113.5	871.9	436.0	206.6	642.6	1,971.9	N.A.	1,971.9	92.1	62.8	320.1	3,321.2	3,641.3	8.8	1961
1962	786.6	121.1	907.7	455.9	222.9	678.8	2,051.3	N.A.	2,051.3	92.4	65.8	344.0	3,452.0	3,796.0	9.1	1962
1963	790.8	124.2	915.0	455.9	246.1	702.0	2,146.7	—	2,146.7	95.7	65.1	370.3	3,554.2	3,924.5	9.4	1963
1964	777.0	126.7	903.7	491.5	253.1	744.6	2,198.9	—	2,198.9	101.4	85.6	379.8	3,654.4	4,034.2	9.4	1964
1965	843.8	134.2	978.0	475.0	265.4	740.4	2,271.9	—	2,271.9	118.6	93.1	399.6	3,802.4	4,202.0	9.5	1965
1966	859.1	141.0	1,000.1	484.6	296.4	781.0	2,382.6	—	2,382.6	144.2	102.9	437.4	3,973.4	4,410.8	9.9	1966
1967	940.7	138.2	1,078.9	470.9	305.4	776.3	2,497.1	22.1	2,519.2	161.3	48.8	465.7	4,118.8	4,584.5	10.2	1967
1968	921.3	148.2	1,069.5	535.2	337.8	873.0	2,703.8	24.2	2,728.0	188.0	43.3	510.2	4,391.6	4,901.8	10.4	1968
1969	947.6	152.0	1,099.6	541.9	381.1	923.0	2,815.8	20.6	2,836.4	259.8	41.1	553.7	4,606.2	5,159.9	10.7	1969
1970	965.3	163.1	1,128.4	546.5	393.9	940.4	2,902.8	21.0	2,923.8	333.8	38.1	578.0	4,786.5	5,364.5	10.8	1970
1971	958.1	166.8	1,124.9	537.0	410.9	947.9	3,014.3	20.9	3,035.2	407.1	37.5	598.6	4,954.0	5,552.6	10.8	1971
1972	997.2	171.2	1,168.4	593.3	464.9	1,058.2	3,191.7	25.8	3,217.5	503.7	42.5	661.9	5,328.4	5,990.3	11.1	1972
1973	977.3	190.4	1,167.7	648.2	493.4	1,141.6	3,353.7	26.9	3,380.6	587.4	40.0	710.7	5,606.6	6,317.3	11.2	1973
1974	888.2	175.6	1,063.8	628.9	487.0	1,115.9	3,270.2	25.8	3,296.0	559.9	42.6	688.4	5,389.8	6,078.2	11.3	1974

N.A. Not applicable

[1] Petroleum products refined and processed from crude oil, including still gas, liquefied refinery gas and natural gas liquids.

Source: U.S. Department of the Interior, 1947-1969: W.G. Dupree Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972.
1970-1974: U.S. Bureau of Mines: Press Release, February 1977.

UNITED STATES
SECTORIAL DEMAND FOR PETROLEUM[1]—FUEL USE VS. NON-FUEL USE
(Millions of barrels)

	HOUSEHOLD AND COMMERCIAL			INDUSTRIAL			TRANSPORTATION				MISCELLANEOUS						
Year	Fuel Use	Non-Fuel Use	Total	Fuel Use	Non-Fuel Use	Total	Fuel Use	Non-Fuel Use	Total	ELECTRICAL GENERATION	Fuel Use	Non-Fuel Use	Total	Total Non-Fuel Use	Total Fuel Use	Total Input	Non-fuel Use as a % of Total Input
1975[r]	853.6	152.8	1,006.4	614.5	433.9	1,048.4	3,310.9	22.6	3,333.5	520.1	16.4	32.7	49.1	642.0	5,315.5	5,957.5	10.8%
1976[p]	943.2	161.0	1,104.2	665.6	500.5	1,166.1	3,453.4	27.0	3,480.4	559.0	11.9	28.1	40.0	716.6	5,633.1	6,349.7	11.3

[r] Revised
[p] Preliminary

---

[1] Petroleum products refined and processed from crude oil, including still gas, liquefied refinery gas and natural gas liquids

Source: U.S. Department of the Interior. 1975-1976: U.S. Bureau of Mines, Press Release, March 14, 1977

Note: CONSISTENT DATA NOT AVAILABLE AFTER 1976

UNITED STATES
SECTORIAL DEMAND FOR NATURAL GAS—FUEL USE vs NON-FUEL USE
(Million cubic feet)

Year	HOUSEHOLD AND COMMERCIAL	INDUSTRIAL			TRANSPOR-TATION	ELECTRICAL GENERATION	Total Non-Fuel Use	Total Fuel Use	Total Input	Total Non-Fuel Use as a % of Total Input	Year
		Fuel Use	Non-fuel Use	Total							
1947	1,087,000	2,420,689	484,882	2,905,571	Neg.	373,037	484,882	3,880,726	4,365,608	11.1%	1947
1948	1,219,402	2,684,282	480,646	3,164,928	Neg.	478,097	480,646	4,381,781	4,862,427	9.9	1948
1949	1,304,362	2,791,305	427,892	3,219,197	Neg.	550,121	427,892	4,645,788	5,073,680	8.4	1949
1950	1,586,207	3,190,905	410,852	3,601,757	125,546	628,919	410,852	5,531,577	5,942,429	6.9	1950
1951	1,939,034	3,680,694	426,423	4,107,117	192,496	763,898	426,423	6,576,122	7,002,545	6.1	1951
1952	2,137,635	3,874,587	368,399	4,242,986	207,207	910,117	368,399	7,129,546	7,497,945	4.9	1952
1953	2,216,153	4,088,186	300,942	4,389,128	230,314	1,034,272	300,942	7,568,925	7,869,867	3.8	1953
1954	2,479,205	4,045,096	338,101	4,383,197	230,615	1,165,498	338,101	7,920,414	8,258,515	4.1	1954
1955	2,753,171	4,418,768	349,794	4,768,562	245,246	1,153,280	349,794	8,570,465	8,920,259	3.9	1955
1956	3,044,435	4,549,541	372,598	4,922,139	295,972	1,239,311	372,598	9,129,259	9,501,857	3.9	1956
1957	3,276,185	4,766,625	383,788	5,150,413	299,235	1,338,079	383,788	9,680,124	10,063,912	3.8	1957
1958	3,586,025	4,987,057	365,237	5,352,294	312,221	1,372,853	365,237	10,258,156	10,623,393	3.4	1958
1959	3,887,708	5,346,144	374,612	5,720,756	349,348	1,627,097	374,612	11,210,297	11,584,909	3.2	1959
1960	4,123,389	5,714,486	359,628	6,074,114	347,075	1,724,763	359,628	11,909,713	12,269,341	2.9	1960
1961	4,325,427	5,895,291	326,377	6,221,668	377,607	1,825,341	326,377	12,423,666	12,750,043	2.6	1961
1962	4,685,231	6,279,008	300,000	6,579,008	382,496	1,965,590	300,000	13,312,325	13,612,325	2.2	1962
1963	4,856,804	6,630,360	287,378	6,917,738	423,783	2,142,930	287,378	4,053,877	14,341,255	2.0	1963
1964	5,162,009	6,911,947	286,759	7,198,706	435,570	2,321,889	286,759	4,831,415	15,118,174	1.9	1964
1965	5,346,450	7,149,904	283,296	7,433,200	500,524	2,318,253	283,296	15,315,131	15,598,427	1.8	1965
1966	5,760,999	7,662,332	286,154	7,948,486	535,353	2,608,758	286,154	16,567,442	16,853,696	1.7	1966
1967	6,029,855	7,885,653	446,961	8,332,614	575,752	2,746,352	446,961	17,237,612	17,684,573	2.5	1967
1968	6,250,997	8,546,122	440,973	8,987,095	590,965	3,143,858	440,973	18,531,942	18,972,915	2.3	1968
1969	6,682,804	8,895,419	692,251	9,587,670	630,962	3,486,391	692,251	19,695,576	20,387,827	3.4	1969
1970	6,894,007	9,190,960	665,884	9,856,844	722,166	3,894,019	665,884	20,701,152	21,367,036	3.1	1970
1971[r]	7,480,667	8,928,513	648,699	9,577,212	742,592	3,992,983	648,699	21,144,755	21,793,454	3.0	1971[r]
1972[r]	7,733,964	8,968,720	653,939	9,622,659	766,156	3,978,673	653,939	21,447,513	22,101,452	3.0	1972[r]
1973[r]	7,476,424	9,539,747	699,682	10,239,429	728,177	3,605,333	699,682	21,349,681	22,049,363	3.2	1973[r]
1974[r]	7,341,745	9,073,235	710,130	9,783,365	668,792	3,429,231	710,130	20,513,003	21,223,133	3.3	1974[r]

[r] Revised

Source: U.S. Department of Interior. 1947-1970: W.G. Dupree Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972
1971-1974: U.S. Bureau of Mines, Press Release

UNITED STATES
SECTORIAL DEMAND FOR NATURAL GAS—FUEL USE VS. NON-FUEL USE
(Million cubic feet)

Year	HOUSEHOLD AND COMMERCIAL	INDUSTRIAL			TRANSPORTATION	ELECTRICAL GENERATION	Total Non-Fuel Use	Total Fuel Use	Total Input	Total Non-Fuel Use as a % of Total Input	Year
		Fuel Use	Non-fuel Use	Total							
1975[r]	7,432,417	7,781,394	593,946	8,375,340	582,963	3,146,873	593,946	18,943,647	19,537,593	3.0%	1975[r]
1976[p]	7,950,000	7,595,000	615,000	8,210,000	570,000	3,070,000	615,000	19,185,000	19,800,000	3.1	1976[p]

[r] Revised
[p] Preliminary

Source: U.S. Department of Interior. U.S. Bureau of Mines, "Annual U.S. Energy Use Up in 1976," March 14, 1977 (Press Release)

Note: CONSISTENT DATA NOT AVAILABLE AFTER 1976

UNITED STATES
SECTORIAL DEMAND FOR COAL[1] FUEL USE vs NON-FUEL USE
(Thousand short tons)

Year	Household and Commercial	INDUSTRIAL Fuel Uses	INDUSTRIAL Non-fuel Uses	INDUSTRIAL Total	Transportation	Electrical Generation	Miscellaneous	Total Fuel Uses	Total Non-fuel Uses	Total Inputs	Total Non-fuel Uses as a % of Total Inputs	Year
1947	128,657	268,790	4,613	273,403	113,324	89,531	528	600,830	4,613	605,443	0.8%	1947
1948	122,994	239,678	4,536	244,214	98,295	99,586	5,020	565,573	4,536	570,109	0.8	1948
1949	114,639	204,845	4,074	208,919	70,915	83,964	4,801	479,164	4,074	483,238	0.8	1949
1950	110,422	218,683	4,824	223,507	63,783	91,871	4,519	489,278	4,824	494,102	1.0	1950
1951	100,057	233,439	5,337	238,776	56,903	105,768	4,400	500,567	5,337	505,904	1.1	1951
1952	91,212	206,502	4,644	211,146	40,428	107,071	4,200	449,413	4,644	454,057	1.0	1952
1953	77,976	221,415	5,450	226,865	30,074	115,883	4,000	449,348	5,450	454,798	1.2	1953
1954	65,425	174,626	4,522	179,148	19,060	118,401	7,926	385,438	4,522	389,960	1.2	1954
1955	66,039	209,353	5,593	214,946	17,429	143,759	4,839	441,419	5,593	447,012	1.3	1955
1956	61,685	212,318	5,492	217,810	14,187	158,279	4,897	451,366	5,492	456,858	1.2	1956
1957	46,382	207,839	5,565	213,404	10,126	160,761	3,795	428,903	5,565	434,468	1.3	1957
1958	45,005	171,206	4,394	175,600	5,015	155,714	4,369	381,309	4,394	385,703	1.1	1958
1959	36,770	165,732	4,192	169,924	3,861	168,427	6,144	380,934	4,192	385,126	1.1	1959
1960	37,180	170,537	4,688	175,225	3,294	176,633	5,697	393,341	4,688	398,029	1.2	1960
1961	32,805	163,532	4,558	168,090	770	182,138	6,502	385,747	4,558	390,305	1.2	1961
1962	32,955	165,414	4,581	169,995	687	193,128	6,009	398,193	4,581	402,774	1.1	1962
1963	27,603	173,759	4,442	178,201	670	211,193	5,658	418,883	4,442	423,325	1.0	1963
1964	22,949	184,681	4,880	189,561	711	225,271	7,024	440,636	4,880	445,516	1.1	1964
1965	25,676	195,496	5,192	200,688	655	244,887	158	466,872	5,192	472,064	1.1	1965
1966	25,587	199,798	5,147	204,945	609	266,394	131	492,519	5,147	497,666	1.0	1966
1967	22,134	189,592	5,003	194,595	467	273,970	50	486,213	5,003	491,216	1.0	1967
1968	19,983	186,061	5,541	191,602	417	296,942	46	503,449	5,541	508,990	1.1	1968
1969	16,875	182,900	5,686	188,586	313	310,310	—	510,398	5,686	516,084	1.1	1969
1970	16,114	181,027	5,610	186,637	298	320,818	—	518,257	5,610	523,867	1.1	1970
1971	15,201	154,589	4,277	158,866	207	327,926	—	497,923	4,277	502,200	0.9	1971
1972	11,708	156,029	4,595	160,624	163	350,196	—	518,096	4,595	522,691	0.9	1972
1973	11,117	157,760	4,379	162,139	116	388,321	—	557,314	4,379	561,693	0.8	1973
1974p/	11,417	150,992	4,102	155,094	80	391,566	—	554,055	4,102	558,157	0.7	1974p/

---

p/ Preliminary

[1] Includes anthracite, bituminous, and lignite coals

Source: U.S. Department of the Interior. 1947-1970: W.G. Dupree Jr. and J.A. West, "United States Energy Through The Year 2000," December 1972
1971: U.S. Bureau of Mines, Minerals Yearbook 1972
1972: U.S. Bureau of Mines, "U.S. Energy Use Up Nearly 5 Percent in 1973," March 13, 1974 (Press Release)(Revised)
1973: U.S. Bureau of Mines, "U.S. Energy Use Down in 1974 After Two Decades of Increases," April 3, 1975 (Press Release)
1974: U.S. Bureau of Mines, "Annual U.S. Energy Use Drops Again," April 5, 1976 (Press Release)

July 1976

UNITED STATES
SECTORIAL DEMAND FOR COAL[1]—FUEL USE VS. NON-FUEL USE
(Thousand short tons)

Year	HOUSEHOLD AND COMMERCIAL	INDUSTRIAL			TRANSPOR-TATION	ELECTRICAL GENERATION	MISCEL-LANEOUS	Total Fuel Use	Total Non-fuel Use	Total Input	Total Non-Fuel Use as a % of Total Input	Year
		Fuel Use	Non-Fuel Use	Total								
1975[r]	9,522	143,458	3,674	147,132[2]	24	404,731	—	557,735	3,674	561,409	0.7%	1975[r]
1976[p]	9,180	141,708	3,720	145,428	12	447,798	—	598,698	3,720	602,418	0.6	1976[p]

[r] Revised

[p] Preliminary

[1] Includes anthracite, bituminous, and lignite coals

[2] Excludes 546,000 tons of net imports of coke

Source: U.S. Department of the Interior: U.S. Bureau of Mines. "Annual U.S. Energy Use Up in 1976," March 14, 1977 (Press Release)

Note: CONSISTENT DATA NOT AVAILABLE AFTER 1976

SECTION II. RESERVES, CRUDE OIL

Table 1. Estimated Proved World Reserves of Crude Oil

Table 2. The Declining Supply of United States Crude Oil

Table 3. Estimated World Proven Crude Oil Reserves — Twenty Leading Nations

Table 4. USGS Estimates of U.S. Oil and Gas Resources

BEST AVAILABLE COPY

ESTIMATED PROVED WORLD RESERVES OF CRUDE OIL
ANNUALLY AS OF JANUARY 1
(thousands of barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations	Total World	U.S. as a Percent of Free World Total	U.S. as a Percent of World Total	Year
1948	21,487,685	125,000	10,085,000	31,697,685	28,550,000	100,000	1,300,000	50,000	61,697,685	6,500,000	68,197,685	34.8%	31.5%	1948
1949	23,280,444	500,000	10,880,000	34,660,444	32,621,000	122,000	1,372,000	179,000	68,954,444	4,645,000	73,599,444	33.8	31.6	1949
1950	24,649,489	1,200,000	11,400,800	37,250,289	32,413,000	202,500	1,557,000	288,950	71,711,739	4,741,000	76,452,739	34.3	32.3	1950
1951	25,268,398	1,202,607	11,525,000	37,996,005	41,567,000	188,000	1,765,000	445,400	81,961,405	7,965,000	89,926,405	30.8	28.1	1951
1952	27,468,031	1,376,600	12,710,850	41,555,481	51,320,000	175,000	1,965,500	501,500	95,517,481	7,927,000	103,444,481	28.8	26.6	1952
1953	27,960,554	1,679,509	11,883,500	41,523,563	64,825,000	163,000	2,062,000	472,700	109,046,263	9,408,000	118,454,263	25.6	23.6	1953
1954	28,944,828	1,845,422	13,182,000	43,972,250	78,160,000	158,000	2,583,000	641,500	125,514,750	9,455,000	134,969,750	23.1	21.5	1954
1955	29,560,746	2,207,614	14,356,000	46,124,360	97,459,000	112,000	2,708,000	1,049,200	147,452,560	10,047,000	157,499,560	20.0	18.8	1955
1956	30,012,170	2,509,534	15,515,000	48,036,704	126,271,000	169,000	3,000,000	1,261,000	178,737,704	10,833,000	189,570,704	16.8	15.8	1956
1957	30,434,649	2,849,370	17,474,000	50,758,019	144,470,000	285,000	6,140,000	1,305,000	202,958,019	25,000,000	227,958,019	15.0	13.4	1957
1958	30,300,405	2,874,454	21,003,500	54,178,359	169,566,000	814,000	8,578,000	1,304,000	234,440,359	26,200,000	260,640,359	12.9	11.6	1958
1959	30,535,917	3,165,904	21,843,000	55,544,821	173,951,000	4,118,500	9,646,500	1,437,000	244,697,821	27,705,000	272,402,821	12.5	11.2	1959
1960	31,719,347	3,497,124	24,435,600	59,652,071	181,436,000	7,273,500	10,175,500	1,496,000	260,033,071	30,002,000	290,035,071	12.6	10.9	1960
1961	31,613,211	3,678,542	25,061,800	60,353,553	183,160,000	8,099,500	10,906,500	1,722,000	264,241,553	33,502,000	297,743,553	12.0	10.6	1961
1962	31,758,505	4,173,569	24,706,000	60,638,074	188,204,000	9,709,500	10,867,600	1,736,000	271,155,174	34,252,000	305,407,174	11.7	10.4	1962
1963	31,389,223	4,480,702	24,225,500	60,095,425	193,975,000	12,345,500	11,331,100	1,791,000	279,538,025	29,976,000	309,514,025	11.2	10.1	1963
1964	30,969,990	4,881,492	24,305,000	60,156,482	207,368,000	16,375,500	11,621,200	1,925,600	297,446,782	29,500,000	326,946,782	10.4	3.5	1964
1965	30,990,510	6,177,546	25,525,000	62,693,056	212,180,000	19,395,600	11,613,700	2,035,600	307,917,956	30,750,000	338,667,956	10.1	9.2	1965
1966	31,352,391	6,711,237	25,170,500	63,234,128	215,360,000	23,049,000	11,008,750	2,085,000	314,736,878	33,377,000	348,118,878	10.0	9.0	1966
1967	31,452,127	7,791,751	27,100,300	66,344,178	235,614,600	32,355,500	11,808,472	1,924,500	348,047,250	33,838,000	381,885,250	9.0	8.2	1967
1968	31,376,670	8,168,924	26,907,250	66,452,844	249,209,000	42,285,250	11,815,945	2,017,000	371,780,039	35,773,000	407,553,039	8.4	7.7	1968
1969	30,707,117	8,381,613	28,782,775	67,871.505	270,760,000	44,568,800	13,720,200	1,937,000	398,857,505	55,877,000	454,734,505	7.8	6.8	1969
1970	29,631,862	8,619,805	29,179,750	67,431,417	333,506,000	54,679,500	13,138,150	1,779,000	470,534,067	60,000,000	530,534,067	6.3	5.6	1970
1971	39,001,335[1]	8,558,980	26,185,250	73,745,565	344,574,900	74,757,520	14,408,648	3,708,500	511,195,133	100,000,000	611,195,133	7.6	6.4	1971
1972	38,062,957[1]	8,333,087	31,558,750	77,954,794	367,386,000	58,886,200	15,604,500	14,222,000	534,053,494	98,500,000	632,553,494	7.1	6.0	1972
1973	36,339,408[1]	8,020,141	32,601,750	76,961,299	355,852,000	106,402,000	14,922,260	12,082,000	566,219,559	98,000,000	664,219,559	6.4	5.5	1973
1974	35,299,839[1]	7,674,150	31,640,250	74,614,239	350,162,500	67,303,750	15,635,040	15,990,950	523,706,479	103,000,000	626,706,479	6.7	5.6	1974
1975	34,249,956[1]	7,171,229	40,578,000	81,999,185	403,858,200	68,299,450	21,047,700	25,814,000	601,018,535	111,400,000	712,418,535	5.7	4.8	1975

[1] Figures include 9.6 billion barrels in Prudhoe Bay, Permo-Triassic Reservoir, Alaska (discovered in 1968) which are not yet available for production due to lack of transportation facilities.

Source: UNITED STATES, American Petroleum Institute, Committee on Reserves and Productive Capacity
CANADA, Canadian Petroleum Association (1952-1975)
REST OF THE WORLD, Oil and Gas Journal, "World Wide Oil" issues

Section II
Table 1

ESTIMATED PROVED WORLD RESERVES OF CRUDE OIL
ANNUALLY AS OF JANUARY 1
(Thousands of barrels)

Year	United States	Canada	Latin America	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations	Total World	U.S. as a Percent of Free World Total	U.S. as a Percent of World Total	Year
1976	32,682,127⁽¹⁾	6,653,002	35,368,000	74,703,129	368,410,570	65,085,220	21,234,230	25,487,700	554,920,849	103,000,000	657,920,849	5.9%	5.0%	1976
1977	30,942,166	6,257,082	29,608,950	66,808,198	367,681,220	60,570,200	19,391,140	24,538,810	538,989,568	101,100,000	640,089,568	5.7	4.8	1977
1978	29,486,402	5,970,872	40,370,000	75,827,274	366,166,000	59,200,150	19,749,270	26,862,500	547,805,194	98,000,000	645,805,194	5.4	4.6	1978
1979	27,803,760	6,860,000	41,246,500	75,910,260	369,996,000	57,892,125	20,007,200	23,966,000	547,771,585	94,000,000	641,771,585	5.1	4.3	1979
1980	27,051,289	6,800,000	56,472,500	90,323,789	361,947,300	57,072,100	19,355,200	23,476,400	522,174,789	90,000,000	642,174,789	4.9	4.2	1980
1981	26,400,000	6,400,000	69,489,837	102,[illegible]89,837	362,071,000	55,148,375	19,630,500	23,085,000	562,224,712	86,300,000	648,524,712	4.7	4.1	1981

---

(1) Figures include approximately 10.0 billion barrels in Prudhoe Bay, Permo-Triassic Reservoir, Alaska which were not available for production prior to 1977 due to lack of transportation facilities.

Source: 1976-80 UNITED STATES—American Petroleum Institute, Committee on Reserves
CANADA—Canadian Petroleum Association
REST OF THE WORLD—Oil and Gas Journal, "Worldwide Report" issue.
1981—Oil and Gas Journal, "Worldwide Report" issue.

THE DECLINING SUPPLY OF UNITED STATES CRUDE OIL
(Thousands of barrels)

Year	Proved Reserves at Start of Year		Reserve Revisions, Extensions and Discoveries, During Year	Production During Year[1]	Proved Reserves at Year-end		Net Change in Reserves During Year	Indicated Years Supply of Year-end Proved Reserves		Year
1947	20,873,560		2,464,570	1,850,445	21,487,685		614,125	11.6		1947
1948	21,487,685		3,795,207	2,002,448	23,280,444		1,792,759	11.6		1948
1949	23,280,444		3,187,845	1,818,300	24,649,489		1,369,045	13.6		1949
1950	24,649,489		2,562,685	1,943,776	25,268,398		618,909	13.0		1950
1951	25,268,398		4,413,954	2,214,321	27,468,031		2,199,633	12.4		1951
1952	27,468,031		2,749,288	2,256,765	27,960,554		492,523	12.4		1952
1953	27,960,554		3,296,130	2,311,856	28,944,828		984,274	12.5		1953
1954	28,944,828		2,873,037	2,257,119	29,560,746		615,918	13.1		1954
1955	29,560,746		2,870,724	2,419,300	30,012,170		451,424	12.4		1955
1956	30,012,170		2,974,336	2,551,857	30,434,649		422,479	11.9		1956
1957	30,434,649		2,424,800	2,559,044	30,300,405		−134,244	11.8		1957
1958	30,300,405		2,608,242	2,372,730	30,535,917		235,512	12.9		1958
1959	30,535,917		3,666,745	2,483,315	31,719,347		1,183,430	12.8		1959
1960	31,719,347		2,365,328	2,471,464	31,613,211		−106,136	12.8		1960
1961	31,613,211		2,657,567	2,512,273	31,758,505		145,294	12.6		1961
1962	31,758,505		2,180,896	2,550,178	31,389,223		−369,282	12.3		1962
1963	31,389,223		2,174,110	2,593,343	30,969,990		−419,233	11.9		1963
1964	30,969,990		2,664,767	2,644,247	30,990,510		20,520	11.7		1964
1965	30,990,510		3,048,079	2,686,198	31,352,391		361,881	11.7		1965
1966	31,352,391		2,963,978	2,864,242	31,452,127		99,736	11.0		1966
1967	31,452,127		2,962,122	3,037,579	31,376,670		−75,457	10.3		1967
1968	31,376,670		2,454,635	3,124,188	30,707,117		−669,553	9.8		1968
1969	30,707,117		2,120,036	3,195,291	29,631,862		−1,075,255	9.3		1969
1970	29,631,862		3,088,918	3,319,445	29,401,335[2]	39,001,335[3]	−230,527	8.9[2]	11.7[3]	1970
1971	29,401,335[2]	39,001,335[3]	2,317,732	3,256,110	28,462,957[2]	38,062,957[3]	−938,378	8.7[2]	11.7[3]	1971
1972	28,462,957[2]	38,062,957[3]	1,557,848	3,281,397	26,739,408[2]	36,339,408[3]	−1,723,549	8.1[2]	11.1[3]	1972
1973	26,739,408[2]	36,339,408[3]	2,145,831	3,185,400	25,699,839[2]	35,299,839[3]	−1,039,569	8.1[2]	11.1[3]	1973
1974	25,699,839[2]	35,299,839[3]	1,993,573	3,043,456	24,649,956[2]	34,249,956[3]	−1,049,883	8.1[2]	11.3[3]	1974

---

[1] Production is the amount originally estimated and used by API in prior reserves reports.

[2] Figures exclude 9.6 billion barrels located in Prudhoe Bay, Alaska (discovered in 1968) which will not be available for production until the Alaskan pipeline, currently under construction, is completed.

[3] Figures include 9.6 billion barrels located in Prudhoe Bay, Alaska.

Source: American Petroleum Institute, Committee on Reserves and Productive Capacity

July 1976

Section II
Table 2

THE DECLINING RESERVES OF UNITED STATES CRUDE OIL
(Thousands of barrels)

Year	Proved Reserves at Start of Year		Reserve Revisions, Extensions and Discoveries, During Year	Production During Year(1)	Proved Reserves at Year-end		Net Change in Reserves During Year	Indicated Years Supply of Year-end Proved Reserves		Year
1975	24,649,956(2)	34,249,956(3)	1,318,463	2,886,292	22,682,127(2)	32,682,127(3)	−1,567,829	7.9(2)	11.3(3)	1975
1976	22,682,127	32,682,127(3)	1,085,291	2,825,252	20,942,166(2)	30,942,166(3)	−1,739,961	7.4(2)	11.0(3)	1976
1977	30,942,166		1,403,780	2,859,544	29,486,402		−1,455,764	10.3		1977
1978	29,486,402		1,347,616	3,029,898	27,803,760		−1,682,642	9.2		1978
1979	27,803,760		2,205,673	2,958,144	27,051,289		− 752,471	9.1		1979

(1) Production is the amount originally estimated and used by API in prior reserves reports.

(2) Figures exclude approximately 10.0 billion barrels located in Prudhoe Bay, Alaska which were not available for production until the Alaskan pipeline was completed in 1977.

(3) Figures include approximately 10.0 billion barrels located in Prudhoe Bay, Alaska.

Source: American Petroleum Institute, Committee on Reserves

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS
(ANNUALLY AS OF JANUARY 1)
(Thousands of barrels)

	1975				1976		
Nation	Reserves	% of Free World Reserves	% of Total World Reserves	Nation	Reserves	% of Free World Reserves	% of Total World Reserves
1. Saudi Arabia[1]	164,500,000	27.4%	23.1%	1. Saudi Arabia[1]	148,600,000	26.8%	22.6%
2. U.S.S.R.	83,400,000	—	11.7	2. U.S.S.R.	80,400,000	—	12.2
3. Kuwait[1]	72,800,000	12.1	10.2	3. Kuwait[1]	68,000,000	12.3	10.3
4. Iran	66,000,000	11.0	9.3	4. Iran	64,500,000	11.6	9.8
5. Iraq	35,000,000	5.8	4.9	5. Iraq	34,300,000	6.2	5.2
6. United States	34,249,956	5.7	4.8	6. United States	32,682,127	5.9	5.0
7. United Arab Emirates	33,920,000	5.6	4.8	7. United Arab Emirates	32,200,000	5.8	4.9
8. Libya	26,600,000	4.4	3.7	8. Libya	26,100,000	4.7	4.0
9. People's Republic of China	25,000,000	—	3.5	9. Nigeria	20,200,000	3.6	3.1
10. Nigeria	20,900,000	3.5	2.9	10. People's Republic of China	20,000,000	3.6	3.0
11. United Kingdom	15,700,000	2.6	2.2	11. Venezuela[2]	17,700,000	3.2	2.7
12. Venezuela[2]	15,000,000	2.5	2.1	12. United Kingdom	16,000,000	2.9	2.4
13. Indonesia	15,000,000	2.5	2.1	13. Indonesia	14,000,000	2.5	2.1
14. Mexico	13,582,000	2.3	1.9	14. Mexico	9,500,000	1.7	1.4
15. Algeria	7,700,000	1.3	1.1	15. Algeria	7,370,000	1.3	1.1
16. Norway	7,300,000	1.2	1.0	16. Norway	7 000,000	1.3	1.1
17. Canada	7,171,229	1.2	1.0	17. Canada	6,653,002	1.2	1.0
18. Oman	6,000,000	1.0	0.8	18. Oman	5,900,000	1.1	1.0
19. Qatar	6,000,000	1.0	0.8	19. Qatar	5,850,000	1.1	0.9
20. Congo Republic	4,874,000	0.8	0.7	20. Egypt	3,900,000	0.7	0.6
TOTAL FREE WORLD	601,018,535	100.0	84.4	TOTAL FREE WORLD	554,920,849	100.0	84.3
TOTAL WORLD	712,418,535	—	100.0	TOTAL WORLD	657,920,849	—	100.0

---

[1] Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 17.3 billion barrels in 1975 and 6.4 billion barrels in 1976. This production is not included in the above figures.

[2] Does not include Orinoco heavy oil belt which had estimated reserves of 700 billion barrels in 1975 and 300 billion barrels in 1976

Source: United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
Canada, Canadian Petroleum Association
Other Nations, Oil and Gas Journal, Worldwide Report

July 1976

Section II
Table 3

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS
ANNUALLY AS OF JANUARY 1
(Thousands of barrels)

	1977				1978		
Nation	Reserves	% of Free World Reserves	% of Total World Reserves	Nation	Reserves	% of Free World Reserves	% of Total World Reserves
1. Saudi Arabia[1]	151,400,000	28.1%	23.7%	1. Saudi Arabia[1]	150,000,000	27.4%	23.2%
2. U.S.S.R.	78,100,000	—	12.2	2. U.S.S.R.	75,000,000	—	11.6
3. Kuwait[1]	67,400,000	12.5	10.5	3. Kuwait[1]	67,000,000	12.2	10.4
4. Iran	63,000,000	11.7	9.8	4. Iran	62,000,000	11.3	9.6
5. Iraq	34,000,000	6.3	5.3	5. Iraq	34,500,000	6.3	5.3
6. United Arab Emirates	31,200,000	5.8	4.9	6. United Arab Emirates	32,425,000	5.9	5.0
7. United States	30,942,166	5.7	4.8	7. United States	29,486,402	5.4	4.6
8. Libya	25,500,000	4.7	4.0	8. Libya	25,000,000	4.6	3.9
9. People's Republic of China	20,000,000	—	3.1	9. People's Republic of China	20,000,000	—	3.1
10. Nigeria	19,500,000	3.6	3.0	10. United Kingdom	19,000,000	3.5	2.9
11. United Kingdom	16,800,000	3.1	2.6	11. Nigeria	18,700,000	3.4	2.9
12. Venezuela	15,270,000	2.8	2.4	12. Venezuela	18,200,000	3.3	2.8
13. Indonesia	10,500,000	1.9	1.6	13. Mexico	14,000,000	2.6	2.2
14. Mexico	7,000,000	1.3	1.1	14. Indonesia	10,000,000	1.8	1.5
15. Algeria	6,800,000	1.3	1.1	15. Algeria	6,600,000	1.2	1.0
16. Canada	6,257,082	1.2	1.0	16. Norway	6,000,000	1.1	0.9
17. Oman	5,800,000	1.1	0.9	17. Canada	5,970,872	1.1	0.9
18. Qatar	5,700,000	1.1	0.9	18. Oman	5,650,000	1.0	0.9
19. Norway	5,660,000	1.1	0.9	19. Qatar	5,600,000	1.0	0.9
20. India	3,000,000	0.6	0.5	20. India	3,000,000	0.5	0.5
TOTAL FREE WORLD	538,989,568	100.0	84.2	TOTAL FREE WORLD	547,805,194	100.0	84.8
TOTAL WORLD	640,089,568	—	100.0	TOTAL WORLD	645,805,194	—	100.0

[1] Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 6.3 billion barrels in 1977 and 6.2 billion barrels in 1978. These reserves are not included in the above figures.

Sources: United States, American Petroleum Institute, Committee on Reserves and Productive Capacity
Canada, Canadian Petroleum Association Other Nations, Oil and Gas Journal, Worldwide Report

April 1978

Section II
Table 3a

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES-TWENTY LEADING NATIONS ANNUALLY AS OF JANUARY 1

(Thousands of barrels)

	1979[r]				1980		
Nation	Reserves	% of Free World Reserves	% of Total World Reserves	Nation	Reserves	% of Free World Reserves	% of Total World Reserves
1. Saudi Arabia	165,700,000[1]	30.3%	25.8%	1. Saudi Arabia	163,350,000	29.6%	25.4%
2. U.S.S.R	71,000,000	—	11.1	2. U.S.S.R.	67,000,000	—	10.4
3. Kuwait	66,200,000[1]	12.1	10.3	3. Kuwait	65,400,000	11.8	10.2
4. Iran	59,000,000	10.8	9.2	4. Iran	58,000,000	10.5	9.0
5. Iraq	32,100,000	5.9	5.0	5. Mexico	31,250,000	5.7	4.9
6. Abu Dhabi	30,000,000	5.5	4.7	6. Iraq	31,000,000	5.6	4.8
7. U.S.A.	27,803,760	5.1	4.3	7. Abu Dhabi	28,000,000	5.1	4.4
8. Libya	24,300,000	4.4	3.8	8. U.S.A.	27,051,289	4.9	4.2
9. China	20,000,000	—	3.1	9. Libya	23,500,000	4.3	3.7
10. Nigeria	18,200,000	3.3	2.8	10. China	20,000,000	—	3.1
11. Venezuela	18,000,000	3.3	2.8	11. Venezuela	17,870,000	3.2	2.8
12. Mexico	16,000,000	2.9	2.5	12. Nigeria	17,400,000	3.2	2.7
13. United Kingdom	16,000,000	2.9	2.5	13. United Kingdom	15,400,000	2.8	2.4
14. Indonesia	10,200,000	1.9	1.6	14. Indonesia	9,600,000	1.7	1.5
15. Canada	6,860,000	1.3	1.1	15. Algeria	8,440,000	1.5	1.3
16. Algeria	6,300,000	1.2	1.0	16. Canada	6,800,000	1.2	1.1
17. Norway	5,900,000	1.1	0.9	17. Norway	5,750,000	1.0	0.9
18. Qatar	4,000,000	0.7	0.6	18. Qatar	3,760,000	0.7	0.6
19. Egypt	3,200,000	0.6	0.5	19. Egypt	3,100,000	0.6	0.5
20. India	2,900,000	0.5	0.5	20. Malaysia	2,800,000	0.5	0.4
TOTAL FREE WORLD	547,771,585	100.0	85.4	TOTAL FREE WORLD	552,174,789	100.0	86.0
TOTAL WORLD	641,771,585	—	100.0	TOTAL WORLD	642,174,789	—	100.0

---

[r] Revised

[1] Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 6,480 million barrels in 1979 and 6,260 mmb in 1980. These reserves are not included in the above figures.

Source: Oil and Gas Journal—Worldwide Report
United States—American Petroleum Institute

ESTIMATED WORLD PROVEN CRUDE OIL RESERVES—TWENTY LEADING NATIONS ANNUALLY AS OF JANUARY 1

(Thousands of barrels)

	1981(p)		
Nation	Reserves	% of Free World Reserves	% of Total World Reserves
1. Saudi Arabia(1)	165,000,000	29.3%	25.4%
2. Kuwait(1)	64,900,000	11.5	10.0
3. U.S.S.R.	63,000,000	—	9.7
4. Iran	57,500,000	10.2	8.9
5. Mexico	44,000,000	7.8	6.8
6. Iraq	30,000,000	5.3	4.6
7. Abu Dhabi	29,000,000	5.2	4.5
8. U.S.A.	26,400,000	4.7	4.1
9. Libya	23,000,000	4.1	3.5
10. China	20,500,000	—	3.2
11. Venezuela	17,950,000	3.2	2.8
12. Nigeria	16,700,000	3.0	2.6
13. United Kingdom	14,800,000	2.6	2.3
14. Indonesia	9,500,000	1.7	1.5
15. Algeria	8,200,000	1.5	1.3
16. Canada	6,400,000	1.1	1.0
17. Norway	5,500,000	1.0	0.8
18. Qatar	3,585,000	0.6	0.6
19. Malaysia	3,000,000	0.5	0.5
20. Egypt(2)	2,900,000	0.5	0.4
TOTAL FREE WORLD	562,224,712	100.0	86.7
TOTAL WORLD	648,524,712	—	100.0

(p) Preliminary

(1) Saudi Arabia and Kuwait share equally the production from the Neutral Zone located between the two nations which had reserves of 6,480 million barrels in 1979 and 6,260 mmb in 1980. These reserves are not included in the above figures.

(2) Includes Gulf of Suez fields returned by Israel in late 1979.

Source: Oil and Gas Journal—Worldwide Report

Section II
Table 4

USGS ESTIMATES OF U.S. OIL AND GAS RESOURCES

Petroleum Regions	Crude Oil (billion barrels)			Total Natural Gas (trillion cubic feet)		
	Low F_{95} (1)	High F_5	Mean (2)	Low F_{95} (1)	High F_5	Mean (2)
Onshore Regions						
1 - Alaska	2.5	14.6	6.9	19.8	62.3	36.6
2 - Pacific Coast	2.1	7.9	4.4	8.2	24.9	14.7
3 - Colorado Plateau & Basin and Range	6.9	25.9	14.2	53.5	142.4	90.1
4 - Rocky Mountains and northern Great Plains	6.0	14.0	9.4	29.6	69.0	45.8
5 - West Texas and eastern New Mexico	2.7	9.4	5.4	22.4	75.2	42.8
6 - Gulf Coast	3.6	12.6	7.1	56.5	249.1	124.4
7 - Mid-continent	2.3	7.7	4.4	22.9	80.8	44.5
8 - Michigan Basin	0.3	2.7	1.1	1.8	10.9	5.1
9 - Eastern Interior	0.3	1.9	0.9	1.2	5.0	2.7
10 - Appalachians	0.1	1.6	0.6	6.4	45.8	20.1
11 - Atlantic Coast	0.1	0.8	0.3	0.1	0.4	0.1
TOTAL ONSHORE	41.7	71.0	54.6	322.5	567.9	426.9
Offshore Regions (Shelf and Slope)						
1A - Alaska (3)	4.6	24.2	12.3	33.3	109.6	64.6
2A - Pacific Coast	1.7	7.9	3.8	3.7	13.6	6.9
6A - Gulf of Mexico	3.1	11.1	6.5	41.7	114.2	71.9
11A - Atlantic Coast	1.1	12.9	5.4	9.2	42.8	23.6
TOTAL OFFSHORE	16.9	43.5	28.0	117.4	230.6	167.0
TOTAL UNITED STATES	64.3	105.1	82.6	474.6	739.3	593.9
LOWER 48 ONSHORE	36.1	62.0	47.7	288.6	525.9	390.3
LOWER 48 OFFSHORE	8.7	25.1	15.8	66.1	148.2	102.4

(1) F_{95} denotes the 95th fractile; the probability of *more than* the amount F_{95} is 95%. F_5 is defined similarly.
(2) Mean values may not be precisely additive owing to rounding.
(3) Includes quantities considered recoverable *only* if technology permits their exploitation beneath Arctic pack ice—a condition not yet met.

Source: U.S. Geological Survey, February 26, 1981 Press Release

SECTION III. EXPLORATION AND DRILLING

Table 1. Exploratory Wells Drilled in the United States

Table 2. United States Drilling Statistics — All Wells by Classification

Table 3. U.S. Petroleum Geophysical Exploration

Table 4. Free World Geophysical Exploration

Table 5. Historical Record: Number of U.S. New Field Oil Discoveries Proved After Six Years to be of Significant Size

Table 6. Historical Record: Number of U.S. New Field Gas Discoveries Proved After Six Years to be of Significant Size

Table 7. Historical Record: Number of U.S. Oil and Gas New Field Discoveries Proved After Six Years to be of Significant Size

Table 8. United States Estimated Drilling Costs by Well Classification, Onshore

Table 9. United States Estimated Drilling Costs by Well Classification, Offshore

Table 10. United States Estimated Drilling Costs, All Wells by Classification

Table 11. Free World Total Well Completions

Table 12. Free World Total Exploratory Well Completions

Table 13. U.S. Annual Average Rotary Rig Activity by States

Table 14. United States Total Wells Drilled by State

Table 15. Annual United States Rotary Rig Census

Table 16. Producing Natural Gas and Condensate Wells in the United States, by State

Table 17. Producing Oil Wells in the United States, by State

Table 18. Producing Oil and Gas Wells in Free World

BEST AVAILABLE COPY

EXPLORATORY WELLS DRILLED IN THE UNITED STATES

	NEW-FIELD WILDCATS				OTHER EXPLORATORY WELLS[1]				TOTAL EXPLORATORY WELLS				Annual % Change	
Year	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total		Year
1947	275	119	3,086	3,480	707	277	2,311	3,295	982	396	5,397	6,775	—	1947
1948	366	135	3,795	4,296	732	230	2,755	3,717	1,098	365	6,550	8,013	+18.3%	1948
1949	364	142	3,943	4,449	1,042	282	3,285	4,609	1,406	424	7,228	9,058	+13.0	1949
1950	462	130	4,698	5,290	1,121	301	3,594	5,016	1,583	431	8,292	10,306	+13.8	1950
1951	515	169	5,505	6,189	1,248	285	4,034	5,567	1,763	454	9,539	11,756	+14.1	1951
1952	556	185	5,957	6,698	1,220	374	4,133	5,727	1,776	559	10,090	12,425	+ 5.7	1952
1953	581	193	6,151	6,925	1,400	506	4,482	6,388	1,981	699	10,633	13,313	+ 7.1	1953
1954	639	263	6,478	7,380	1,346	460	3,911	5,717	1,985	723	10,389	13,097	- 1.6	1954
1955	659	259	7,186	8,104	1,577	610	4,646	6,833	2,236	869	11,823	14,937	+14.0	1955
1956	628	240	7,841	8,709	1,646	582	5,236	7,464	2,274	822	13,077	16,173	+ 8.3	1956
1957	590	282	7,142	8,014	1,355	583	4,755	6,693	1,945	865	11,897	14,707	- 9.1	1957
1958	518	268	6,164	6,950	1,227	554	4,468	6,249	1,745	822	10,632	13,199	-10.3	1958
1959	466	306	6,259	7,031	1,236	606	4,318	6,160	1,702	912	10,577	13,191	- 0.1	1959
1960	448	297	6,575	7,320	873	571	2,940	4,384	1,321	868	9,515	11,704	-11.3	1960
1961	429	316	6,164	6,909	728	497	2,858	4,083	1,157	813	9,022	10,992	- 6.1	1961
1962	470	317	6,007	6,794	751	454	2,808	4,003	1,211	771	8,815	10,797	- 1.8	1962
1963	529	240	5,801	6,570	785	424	2,885	4,094	1,314	664	8,686	10,664	- 1.2	1963
1964	440	252	5,931	6,623	779	325	3,020	4,124	1,219	577	8,951	10,747	+ 0.8	1964
1965	397	234	5,544	6,175	549	281	2,461	3,291	946	515	8,005	9,466	-11.9	1965
1966	420	239	5,499	6,158	776	459	2,920	4,155	1,196	698	8,419	10,313	+ 8.9	1966
1967	371	189	4,700	5,260	615	343	2,660	3,618	986	532	7,360	8,878	-13.9	1967
1968	321	127	4,757	5,205	633	359	2,682	3,674	954	486	7,439	8,879	0.0	1968
1969	344	191	5,421	5,956	740	425	2,580	3,745	1,084	616	8,001	9,701	+ 8.5	1969
1970	309	184	4,576	5,069	481	297	1,846	2,624	790	481	6,422	7,693	-20.7	1970
1971	232	202	4,028	4,462	419	235	1,806	2,460	651	437	5,834	6,922	-10.0	1971
1972	294	272	4,520	5,086	390	329	1,734	2,453	684	601	6,254	7,539	+ 8.9	1972
1973	285	416	4,288	4,989	334	484	1,659	2,477	619	900	5,947	7,466	- 1.0	1973
1974	358	447	4,847	5,652	456	748	1,763	2,967	814	1,195	6,610	8,619	+15.4	1974
1975	429	447	5,228	6,104	543	724	1,843	3,110	972	1,171	7,071	9,214	+ 6.9	1975
1976	439	547	4,854	5,840	608	855	1,931	3,394	1,047	1,402	6,785	9,234	+ 0.2	1976
1977	481	523	5,097	6,101	728	954	2,178	3,860	1,209	1,477	7,275	9,961	+ 7.9	1977
1978	445	538	5,522	6,505	680	1,065	2,427	4,162	1,125	1,603	7,949	10,677	+ 7.2	1978

---

[1] Includes new-pool wildcats, deeper pool tests, shallower pool tests, and out-posts (extensions).

Source: 1947-1965, American Association of Petroleum Geologists
1966-1978, American Association of Petroleum Geologists and American Petroleum Institute

EXPLORATORY WELLS DRILLED IN THE UNITED STATES

	NEW-FIELD WILDCATS				OTHER EXPLORATORY WELLS[1]				TOTAL EXPLORATORY WELLS				Annual %	
Year	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Change	Year
1979	492	670	5,251	6,413	748	1,114	2,209	4,071	1,240	1,784	7,460	10,484	– 1.8	1979
1980	654	686	5,694	7,034	951	1,283	2,648	4,882	1,605	1,969	8,342	11,916	+13.7	1980

[1] Includes new-pool wildcats, deeper pool tests, shallower pool tests, and out-posts (extensions).

Source: 1966-1980, American Association of Petroleum Geologists and American Petroleum Institute

U.S. DRILLING STATISTICS—ALL WELLS [1] BY CLASSIFICATION

Year	EXPLORATORY WELLS				DEVELOPMENT WELLS [1]				TOTAL ALL WELLS [2]				Service, Stratigraphic & Core Tests [3]	TOTAL	% Change	Year
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total				
1946	762	375	4,622	5,759	15,089	2,715	3,429	21,233	15,851	3,090	8,051	26,992	2,237	29,229	—	1946
1947	982	396	5,397	6,775	17,017	2,909	4,141	24,067	17,999	3,305	9,538	30,842	2.280	33,122	+ 13.3	1947
1948	1,098	365	6,550	8,013	21,487	2,532	5,476	29,495	22,585	2,897	12,026	37,508	2,270	39,778	+ 20.1	1948
1949	1,406	424	7,226	9,058	20,636	2,463	5,499	28,598	22,042	2,887	12,727	37,656	1,382	39,038	− 1.9	1949
1950	1,583	431	8,292	10,306	22,847	2,412	6,465	31,724	24,430	2,843	14,757	42,030	1,249	43,279	+ 10.9	1950
1951	1,763	454	9,539	11,756	21,690	2,576	7,114	31,380	23,453	3,030	16,653	43,136	1,380	44,516	+ 2.9	1951
1952	1,776	559	10,090	12,425	21,690	2,696	7,528	31,914	23,466	3,255	17,618	44,339	1,482	45,821	+ 2.9	1952
1953	1,981	699	10,633	13,313	23,781	3,107	7,816	34,704	25,762	3,806	18,449	48,017	1,262	49,279	+ 7.5	1953
1954	1,985	723	10,389	13,097	27,788	3,251	8,779	39,818	29,773	3,974	19,168	52,915	1,012	53,927	+ 9.4	1954
1955	2,236	869	11,832	14,937	29,331	2,739	8,910	40,980	31,567	3,608	20,742	55,917	760	56,677	+ 5.1	1955
1956	2,274	822	13,077	16,173	28,463	3,721	8,720	40,904	30,737	4,543	21,797	57,077	1,049	58,126	+ 2.6	1956
1957	1,945	865	11,897	14,707	26,067	3,755	9,079	38,901	28,012	4,620	20,976	53,608	1,409	55,017	− 5.3	1957
1958	1,745	822	10,632	13,199	22,833	3,981	8,411	35,225	24,578	4,803	19,043	48.424	1,615	50,039	− 9.0	1958
1959	1,702	912	10,577	13,191	24,098	4,117	8,688	36,903	25,800	5,029	19,265	50,094	1,670	51,764	+ 3.4	1959
1960	1,321	868	9,515	11,704	19,865	4,390	8,059	32,314	21,186	5,258	17,574	44,018	2,733	46,751	− 9.7	1960
1961	1,157	813	9,022	10,992	19,944	4,851	8,084	32,879	21,101	5,664	17,106	43,871	3,091	46,962	+ 0.5	1961
1962	1,211	771	8,815	10,797	20,038	5,077	7,867	32,982	21,249	5,848	16,682	43,779	2,400	46,179	− 1.7	1962
1963	1,314	664	8,686	10,664	18,974	4,087	7,661	30,722	20,288	4,751	16,347	41,386	2,267	43,653	− 5.5	1963
1964	1,219	577	8,951	10,747	19,401	4,278	8,537	32,216	20,620	4,855	17,488	42,963	2,273	45,236	+ 3.6	1964
1965	946	515	8,005	9,466	17,815	4,209	8,020	30,044	18,761	4,724	16,025	39,510	1,922	41,432	− 8.4	1965
1966	1,196	698	8,419	10,313	15,584	3,679	6,808	26,071	16,780	4,377	15,227	36,384	1,810	38,194	− 7.8	1966
1967	986	532	7,360	8,878	14,343	3,127	5,886	23,356	15,329	3,659	13,246	32,234	1,584	33,818	− 11.5	1967
1968	954	486	7,439	8,879	13,377	2,970	5,373	21,720	14,331	3,456	12,812	30,599	2,315	32,914	− 2.7	1968
1969	1,084	616	8,001	9,701	13,284	3,467	5,735	22,486	14,368	4,083	13,736	32,187	1,866	34,053	+ 3.5	1969
1970	790	481	6,422	7,693	12,230	3,359	4,838	20,427	13,020	3,840	11,260	28,120	1,347	29,467	− 13.5	1970
1971	651	437	5,834	6,922	11,207	3,393	4,329	18,929	11,858	3,830	10,163	25,851	1,449	27,300	− 7.4	1971
1972	684	601	6,254	7,539	10,622	4,327	4,803	19,752	11,306	4,928	11,057	27,291	1,464	28,755	+ 5.3	1972
1973	619	900	5,947	7,466	9,283	5,485	4,358	19,126	9,902	6,385	10,305	26,592	1,010	27,602	− 4.0	1973
1974	814	1,195	6,610	8,619	11,970	6,045	5,064	23,079	12,784	7,240	11,674	31,698	1,195	32,893	+ 19.2	1974

---

[1] The number of development wells for the years 1946-65 was obtained by deducting the total number of exploratory wells reported by the AAPG from the total number of wells reported by the Oil & Gas Journal.

[2] Excluding service, stratigraphic and core tests.

[3] 1946-1965 excludes stratigraphic and core tests; stratigraphic and core tests are included for 1965-1974

Sources: 1946-1965, American Association of Petroleum Geologists and Oil & Gas Journal
1966-1974, American Petroleum Institute and the American Association of Petroleum Geologists

U.S. DRILLING STATISTICS—ALL WELLS BY CLASSIFICATION

	EXPLORATORY WELLS				DEVELOPMENT WELLS				TOTAL ALL WELLS[2]							
Year	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Service, Stratigraphic & Core Tests	TOTAL	Change	Year
1975	972	1,171	7,071	9,214	15,436	6,409	6,176	28,021	16,408	7,580	13,247	37,235	1,862	39,097	+ 18.9	1975
1976	1,047	1,402	6,785	9,234	16,012	7,683	6,836	30,531	17,059	9,085	13,621	39,765	1,690	41,455	+ 6.0	1976
1977	1,209	1,477	7,275	9,961	17,703	9,901	7,417	35,021	18,912	11,378	14,692	44,982	1,497	46,479	+ 12.1	1977
1978	1,125	1,603	7,949	10,677	16,650	11,461	8,269	36,380	17,775	13,064	16,218	47,057	1,456	48,513	+ 4.4	1978
1979	1,240	1,784	7,460	10,484	18,143	12,897	8,292	39,332	19,383	14,681	15,752	49,816	1,447	51,263	+ 5.7	1979
1980	1,605	1,969	8,342	11,916	25,421	13,761	9,747	48,929	27,026	15,730	18,089	60,845	1,617	62,462	+ 21.9	1980

(2) Excluding service, stratigraphic and core test wells.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

U.S. PETROLEUM GEOPHYSICAL EXPLORATION
(Crew months)

	SEISMIC			GRAVITY-MAGNETIC-OTHER			ALL METHODS			% OF TOTAL GEOPHYSICAL EXPLORATION PERFORMED BY		
Year	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Year
1951	[1]	[1]	6,537	[1]	[1]	802	[1]	[1]	7,339	[1]	[1]	1951
1952[r]	[1]	[1]	7,958	[1]	[1]	965	[1]	[1]	8,923	[1]	[1]	1952 [r]
1953	[1]	[1]	7,666	[1]	[1]	1,006	[1]	[1]	8,672	[1]	[1]	1953
1954	[1]	[1]	6,863	[1]	[1]	1,106	[1]	[1]	7,969	[1]	[1]	1954
1955	2,791	4,299	7,090	419	655	1,150[2]	3,210	4,954	8,240 [2]	39.0%	60.1% [3]	1955
1956	2,948	3,865	6,813	381	663	1,044	3,329	4,528	7,857	42.4	57.6	1956
1957	2,834	3,449	6,283	442	517	959	3,276	3,966	7,242	45.2	54.8	1957
1958	2,334	2,730	5,064	340	327	667	2,674	3,057	5,731	46.7	53.3	1958
1959	2,289	2,808	5,097	278	321	599	2,567	3,129	5,696	45.1	54.9	1959
1960	1,979	2,646	4,625	258	324	582	2,237	2,970	5,207	43.0	57.0	1960
1961	1,747	2,810	4,557	163	304	467	1,910	3,114	5,024	38.0	62.0	1961
1962	1,322	2,593	3,915	112	204	316	1,434	2,797	4,231	33.9	66.1	1962
1963	1,618	2,348	3,966	75	133	208	1,693	2,481	4,174	40.6	59.4	1963
1964	1,360	2,742	4,102	76	228	309[4]	1,436	2,970	4,411 [4]	32.6[3]	67.3 [3]	1964
1965	1,635	2,612	4,247	59	165	224	1,694	2,777	4,471	37.9	62.1	1965
1966	1,496	2,176	3,672	57	88	163 [5]	1,553	2,264	3,835 [5]	40.5 [3]	59.0 [3]	1966
1967	1,255	2,082	3,337	59	100	159	1,314	2,182	3,496	37.6	62.4	1967
1968	1,138	2,130	3,268	15	104	122 [6]	1,153	2,234	3,390[6]	34.0	66.0	1968
1969[r]	1,048	2,108	3,156	24	292	316	1,072	2,400	3,472	30.9	69.1	1969 [r]
1970	781	1,559	2,340	12	169	181	793	1,728	2,521	31.5	68.5	1970
1971	656	1,999	2,655	10	97	107	666	2,096	2,762	24.1	75.9	1971
1972	622	2,394	3,016	6	118	124	628	2,512	3,140	20.0	80.0	1972
1973	607	2,392	2,999	18	56	74	625	2,448	3,073	20.3	79.7	1973
1974	540	3,122	3,662	[1]	[1]	230	[1]	[1]	3,892	[1]	[1]	1974

[r] Revised

[1] Company-contractor data are not available.

[2] Includes 76 magnetometer crew months not allocated to either company or contractor.

[3] Percentages do not equal 100 percent due to unallocated crew months included in total.

[4] Includes 5 other crew months not allocated to either company or contractor.

[5] Includes 18 magnetometer crew months not allocated to either company or contractor.

[6] Includes 3 magnetometer crew months not allocated to either company or contractor.

Source: Society of Exploration Geophysicists, Annual Reports.

U.S. PETROLEUM GEOPHYSICAL EXPLORATION
(Crew months)

	SEISMIC			GRAVITY-MAGNETIC-OTHER			ALL METHODS			% OF TOTAL GEOPHYSICAL EXPLORATION PERFORMED BY		
Year	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Total	Company	Contractor	Year
1975	543	2,860	3,416(2)	(1)	(1)	271	(1)	(1)	3,687	(1)	(1)	1975
1976(r)	484	2,646	3,140(2)	(1)	(1)	245	(1)	(1)	3,385	(1)	(1)	1976(r)
1977	499	2,564	3,063(2)	(1)	(1)	120	(1)	(1)	3,183	(1)	(1)	1977
1978	478	3,670	4,148(2)	(1)	(1)	196	(1)	(1)	4,344	(1)	(1)	1978
1979	829	3,571	4,400(2)	(1)	(1)	199	(1)	(1)	4,599	(1)	(1)	1979

(r) Revised

(1) Company-contractor data are not available.

(2) Total includes government and university activity unallocated to company-contractor totals.

Source: Society of Exploration Geophysicists, Annual Reports.

FREE WORLD PETROLEUM GEOPHYSICAL EXPLORATION
(Crew months)

Year	United States	Canada	South America*	Total Western Hemisphere	Western Europe	Africa	Middle East	Far East	Total Eastern Hemisphere	Total Free World	U.S. as a % of Free World Total	Year
1954	7,969	1,652	1,210	10,831	(1)	(1)	(1)	(1)	1,593	12,424	64.1%	1954
1955	8,240	1,599	1,148	10,987	(1)	(1)	(1)	(1)	2,443	13,430	61.4	1955
1956	7,857	1,512	1,206	10,575	1,329	797	475	451	3,052	13,627	57.7	1956
1957	7,242	1,389	1,328	9,959	1,778	892	428	598	3,696	13,655	53.0	1957
1958	5,731	1,130	1,687	8,548	1,749	1,167	589	537	4,042	12,590	45.5	1958
1959	5,696	841	1,478	8,015	1,225	1,152	492	597	3,466	11,481	49.6	1959
1960	5,207	686	1,180	7,073	1,118	1,437	334	564	3,453	10,526	49.5	1960
1961	5,024	664	995	6,683	1,314	1,472	213	521	3,520	10,203	49.2	1961
1962	4,231	692	1,107	6,030	1,136	1,130	177	726	3,169	9,199	46.0	1962
1963	4,174	745	1,153	6,072	1,094	978	233	968	3,273	9,345	44.7	1963
1964	4,411	673	1,133	6,217	1,035	766	283	909	2,993	9,210	47.9	1964
1965	4,471	801	1,127	6,399	1,039	721	350	1,180	3,290	9,689	46.1	1965
1966	3,835	1,039	1,012	5,886	890	925	296	1,043	3,154	9,040	42.4	1966
1967	3,496	1,155	1,078	5,729	1,057	1,082	266	921	3,326	9,055	38.6	1967
1968	3,390	970	1,012	5,372	711	679	296	708	2,394	7,766	43.7	1968
1969	3,472	960	898	5,330	676	864	460	935	2,935	8,265	42.0	1969
1970	2,521	806	1,052	4,379	725	802	286	1,009	2,822	7,201	35.0	1970
1971	2,762	334	1,105	4,201	738	915	254	1,578	3,485	7,686	35.9	1971
1972	3,140	503	1,146	4,789	692	938	239	957	2,826	7,615	41.2	1972
1973	3,073	585	1,236	4,894	627	798	294	950	2,669	7,563	40.6	1973
1974	3,892	487	1,572	5,951	702	835	389	1,008	2,934	8,897(2)	43.7	1974
1975	3,687	597(3)	790(3)	5,074	679(3)	676(3)	306(3)	440(3)	2,101	7,185(2)	51.3	1975
1976(r)	3,385	421(3)	559(3)	4,365	592(3)	674(3)	351(3)	338(3)	1,955	6,353(2)	53.3	1976
1977	3,183	766	460(4)	4,429	646	806	309	254	2,015	6,497(2)	49.0	1977
1978	4,148	782	980	5,910	535	613	330	280	1,758	7,668(2)	54.1	1978
1979	4,400	761	485	5,646	647	674	345	372	2,100(2)	7,746(2)	56.8	1979

(r) Revised

* Includes Mexico

(1) Area total not available

(2) Includes crew months allocated to international waters and other areas not specifically identified, 1974-12, 1975-10, 1976-33, 1977-53, 1978-100, 1979-62.

(3) Seismic activity only

(4) Only partial data for Mexico included

Source: Society of Exploration Geophysicists, Annual Reports

Section III
Table 5

HISTORICAL RECORD: NUMBER OF U.S. NEW FIELD OIL DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total[1] Significant Size Oil Fields	Total New-Field Wildcats Drilled[2]	Percent of A-D Fields in Total New-Field Wildcats Drilled	Year Drilled
	A	B	C	D	E	F	Total[1]				
	(SIGNIFICANT)							A-D INCLUSIVE (A+B+C+D)			
1947	3	7	11	52	129	48	250	73	3,325	2.20%	1947
1948	2	2	9	59	241	33	346	72	4,087	1.76	1948
1949	9	4	9	65	172	78	337	87	4,238	2.05	1949
1950	3	10	15	69	283	56	436	97	5,149	1.88	1950
1951	1	1	13	71	345	61	492	86	6,044	1.42	1951
1952	2	2	11	70	361	90	536	85	6,440	1.32	1952
1953	1	6	17	88	283	134	529	112	6,634	1.69	1953
1954	2	3	12	82	308	179	586	99	7,033	1.41	1954
1955	2	5	13	95	329	178	622	115	7,743	1.49	1955
1956	0	2	2	92	333	124	553	96	8,436	1.14	1956
1957	1	1	7	63	339	186	597	72	7,556	0.95	1957
1958	3	2	16	82	229	157	489	103	6,618	1.56	1958
1959	0	4	3	52	255	110	424	59	7,031	0.84	1959
1960	1	3	5	35	283	143	470	44	7,320	0.60	1960
1961	0	1	4	47	246	68	366	52	6,909	0.75	1961
1962	0	1	3	44	264	78	390	48	6,794	0.71	1962
1963	2	1	7	41	341	100	492	51	6,570	0.78	1963
1964	0	3	9	48	248	109	417	60	6,623	0.91	1964
1965	2	3	5	35	268	63	376	45	6,175	0.73	1965
1966	3	1	3	40	336	6	389	47	6,158	0.76	1966
1967	1	4	2	39	278	24	348	46	5,271	0.87	1967
1968	3	5	1	38	210	63	320	47	5,205	0.90	1968
1969	2	3	2	41	245	28	321	48	5,956	0.81	1969
TOTAL	43	74	179	1,348	6,326	2,116	10,086	1,644	143,315	1.15	TOTAL

1/ Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2043.

A Fields	Over 50 million barrels
B Fields	25-50 million barrels
C Fields	10-25 million barrels
D Fields	1-10 million barrels
E Fields	Less than 1 million barrels
F Fields	Abandoned as non-profitable

2/ Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

HISTORICAL RECORD: NUMBER OF U.S. NEW FIELD OIL DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History: A	B	C	D	E	F	Total(1)	Total(1) Significant Size Oil Fields	Total New-Field Wildcats Drilled(2)	Percent of A-D Fields in Total New-Field Wildcats Drilled	Year Drilled
	(SIGNIFICANT)							(A+B+C+D)			
Cumulative total 1947-1969	43	74	179	1,348	6,326	2,116	10,086	1,644	143,315	1.15	
1970	11	1	5	43	149	18	227	60	5,069	1.18	1970
1971	2	0	2	23	149	8	184	27	4,463	0.60	1971
1972	1	1	1	49	187	3	242	52	5,086	1.02	1972
1973	0	2	3	23	198	0	226	28	4,989	0.56	1973
1974	0	0	0	36	254	0	290	36	5,652	0.64	1974
TOTAL	57	78	190	1,522	7,263	2,145	11,255	1,847	168,574	1.10	TOTAL

(1) Differs from year-of-discovery total because of consolidations. Data for years 1947-52 are from Lahee's Table IV: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958). p. 2043.

A Fields	Over 50 million barrels
B Fields	25-50 million barrels
C Fields	10-25 million barrels
D Fields	1-10 million barrels
E Fields	Less than 1 million barrels
F Fields	Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

HISTORICAL RECORD: NUMBER OF U.S. NEW GAS FIELD DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total[1] Significant Size Gas Fields A-D INCLUSIVE (A+B+C+D)	Total New-Field Wildcats Drilled[2]	Percent of A-D Fields in Total New-Field Wildcats Drilled	Year Drilled
	A (SIGNIFICANT)	B	C	D	E	F	Total[1]				
1947	5	5	4	30	35	19	98	44	3.325	1.32%	1947
1948	3	3	7	33	35	19	100	46	4.087	1.13	1948
1949	8	7	8	34	43	12	112	57	4.238	1.34	1949
1950	4	4	8	28	44	19	107	44	5.149	0.85	1950
1951	10	4	10	41	57	16	138	65	6.044	1.08	1951
1952	10	7	7	44	65	15	148	68	6.440	1.06	1952
1953	3	3	6	40	89	18	159	52	6.634	0.78	1953
1954	4	1	12	51	104	39	211	68	7.033	0.97	1954
1955	2	3	11	33	107	43	199	49	7.743	0.63	1955
1956	2	4	5	52	92	26	181	63	8.436	0.75	1956
1957	9	5	15	70	105	30	234	99	7.556	1.31	1957
1958	3	6	9	55	143	25	241	73	6.618	1.10	1958
1959	4	1	6	51	135	28	225	62	7.031	0.88	1959
1960	6	2	9	63	135	22	237	80	7.320	1.09	1960
1961	4	3	4	35	156	40	242	46	6.909	0.67	1961
1962	3	4	11	61	161	52	292	79	6.794	1.16	1962
1963	4	1	7	38	124	41	215	50	6.570	0.76	1963
1964	4	1	11	37	136	37	226	53	6.623	0.80	1964
1965	1	3	10	38	142	30	224	52	6.175	0.84	1965
1966	1	3	7	36	142	12	201	47	6.156	0.76	1966
1967	4	5	6	26	111	12	164	41	5.271	0.78	1967
1968	1	5	7	27	83	14	137	40	5.205	0.77	1968
1969	3	2	4	35	116	14	174	44	5.956	0.74	1969
TOTAL	98	82	184	958	2.360	583	4.265	1.322	143.315	0.92	TOTAL

---

[1] Differs from years of discovery total because of consolidations. The reserve estimates for the years 1952 and prior were not specifically based upon six years of development history. The data for years 1947-1952 are from Lahee's Table II: American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958), p. 2042.

A Fields	Over 300 billion cubic feet
B Fields	150-300 billion cubic feet
C Fields	60-150 billion cubic feet
D Fields	6-60 billion cubic feet
E Fields	Less than 6 billion cubic feet
F Fields	Abandoned as non-profitable

[2] Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

Section III
Table 6a

HISTORICAL RECORD: NUMBER OF U.S. NEW GAS FIELD DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total Significant Size Gas Fields[1]	Total New-Field Wildcats Drilled[2]	Percent of A-D Fields in Total New-Field Wildcats Drilled	Year Drilled
	A	B	C	D	E	F	Total[1]				
	(SIGNIFICANT)							(A+B+C+D)			
Cumulative total 1947-1969	98	82	184	958	2,360	583	4,265	1,322	143,315	0.92	
1970	5	4	3	25	79	14	130	37	5,069	0.73	1970
1971	2	3	3	38	102	12	160	46	4,463	1.03	1971
1972	3	2	6	47	187	0	245	58	5,086	1.14	1972
1973	2	6	10	57	284	0	359	75	4,989	1.50	1973
1974	0	2	6	51	329	0	388	59	5,652	1.04	1974
TOTAL	110	99	212	1,176	3,341	609	5,547	1,597	168,574	0.95	TOTAL

---

(1) Differs from year-of-discovery total because of consolidations. The reserve estimates for the years 1952 and prior were not specifically based upon six years of development history. The data for years 1947-52 are from Lahee's Table II. American Association of Petroleum Geologists Bulletin, Vol. 42, No. 9 (Sept. 1958). p. 2042.

A Fields	Over 300 billion cubic feet
B Fields	150-300 billion cubic feet
C Fields	60-150 billion cubic feet
D Fields	6-60 billion cubic feet
E Fields	Less than 6 billion cubic feet
F Fields	Abandoned as non-profitable

(2) Includes oil wells, gas wells and dry holes.

Source: American Association of Petroleum Geologists, North American Drilling Activity

HISTORICAL RECORD: NUMBER OF U.S. OIL AND GAS NEW-FIELD DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total1/ Significant Size Oil & Gas Fields	Total Oil & Gas New-Field Wildcats Drilled	Percent of A-D Fields in Total Oil & Gas New-Field Wildcats Drilled	Year Drilled
	A	B	C	D	E	F	Total1/				
	(SIGNIFICANT)							A-D INCLUSIVE (A+B+C+D)			
1947	8	12	15	82	164	67	348	117	3.325	3.52%	1947
1948	5	5	16	92	276	52	446	118	4.087	2.89	1948
1949	17	11	17	99	215	90	449	144	4.238	3.40	1949
1950	7	14	23	97	327	75	543	141	5.149	2.74	1950
1951	11	5	23	112	402	77	630	151	6.044	2.50	1951
1952	12	9	18	114	426	105	684	153	6.440	2.38	1952
1953	4	9	23	128	372	152	688	164	6.634	2.47	1953
1954	6	4	24	133	412	218	797	167	7.033	2.37	1954
1955	4	8	24	128	436	221	821	164	7.743	2.12	1955
1956	2	6	7	144	425	150	734	159	8.436	1.88	1956
1957	10	6	22	133	444	216	831	171	7.556	2.26	1957
1958	6	8	25	137	372	182	730	176	6.618	2.66	1958
1959	4	5	9	103	390	138	649	121	7.031	1.72	1959
1960	7	5	14	98	418	165	707	124	7.320	1.69	1960
1961	4	4	8	82	402	108	608	98	6.909	1.42	1961
1962	3	5	14	105	425	130	682	127	6.794	1.87	1962
1963	6	2	14	79	465	141	707	101	6.570	1.54	1963
1964	4	4	20	85	384	146	643	113	6.623	1.71	1964
1965	3	6	15	73	410	93	600	97	6.175	1.57	1965
1966	4	4	10	76	478	18	590	94	6.158	1.53	1966
1967	5	9	8	65	389	36	512	87	5.271	1.65	1967
1968	4	10	8	65	293	77	457	87	5.205	1.67	1968
1969	5	5	6	76	361	42	495	92	5.956	1.54	1969
TOTAL	141	156	363	2.306	8.686	2.699	14.351	2.966	143.315	2.07	TOTAL

1/ Differs from year of discovery total because of consolidations

A Fields	Over 50 million barrels or over 300 billion cubic feet
B Fields	25-50 million barrels or 150-300 billion cubic feet
C Fields	10-25 million barrels or 60-150 billion cubic feet
D Fields	1-10 million barrels or 6-60 billion cubic feet
E Fields	Less than 1 million barrels or less than 6 billion cubic feet
F Fields	Abandoned as non-profitable

Source: American Association of Petroleum Geologists. North American Drilling Activity

HISTORICAL RECORD: NUMBER OF U.S. OIL AND GAS NEW FIELD DISCOVERIES PROVED AFTER SIX YEARS TO BE OF SIGNIFICANT SIZE

Year Drilled	Number of Fields in Each Size Classification After Six Years of Development History							Total Significant Size Oil Fields	Total Oil & Gas New-Field Wildcats Drilled	Percent of A-D Fields in Total Oil & Gas New-Field Wildcats Drilled	Year Drilled
	A	B	C	D	E	F	Total[1]				
	(SIGNIFICANT)							(A+B+C+D)			
Cumulative total 1947-1969	141	156	363	2,306	8,686	2,699	14,351	2,966	143,315	2.07	
1970	16	5	8	68	228	32	357	97	5,069	1.91	1970
1971	4	3	5	61	251	20	344	73	4,463	1.64	1971
1972	4	3	7	96	374	3	487	110	5,086	2.16	1972
1973	2	8	13	80	482	0	585	103	4,989	2.06	1973
1974	0	2	6	87	583	0	678	95	5,652	1.68	1974
TOTAL	167	177	402	2,698	10,604	2,754	16,802	3,444	168,574	2.04	TOTAL

(1) Differs from year of discovery total because of consolidations.

A Fields	Over 50 million barrels or over 300 billion cubic feet
B Fields	25-50 million barrels or 150-300 billion cubic feet
C Fields	10-25 million barrels or 60-150 billion cubic feet
D Fields	1-10 million barrels or 6-60 billion cubic feet
E Fields	Less than 1 million barrels or less than 6 billion cubic feet
F Fields	Abandoned as non-profitable

Source: American Association of Petroleum Geologists, North American Drilling Activity

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, ONSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	25,136	94,331,708	1,232,591,000	3,753	49,037	13.07
1960	20,933	81,168,838	914,306,819	3,878	43,670	11.26
1961	20,868	79,736,609	971,144,061	3,821	46,537	12.18
1962	20,060	83,168,458	1,041,452,536	4,146	51,917	12.52
1963	20,306	77,410,438	940,225,250	3,812	46,303	12.15
1964	20,535	76,376,645	898,606,894	3,719	43,760	11.77
1965	18,370	74,627,569	873,769,045	4,062	47,565	11.71
1966	15,312	60,104,252	745,319,549	3,925	48,676	12.40
1967	14,196	53,675,969	692,118,920	3,781	48,755	12.89
1968	13,010	51,828,631	699,182,337	3,984	53,742	13.49
1969	12,330	52,726,293	790,280,178	4,276	64,094	14.99
1970	12,014	51,734,000	806,429,000	4,306	67,124	15.59
1971	11,036	45,672,234	731,152,743	4,116	65,893	16.01
1972	10,421	45,126,022	792,435,249	4,330	76,042	17.56
1973	9,407	41,980,947	825,029,716	4,462	87,704	19.65
1974	12,820	49,662,328	1,270,731,107	3,874	99,121	25.59
% CHANGE						
1965-74	-30.2%	-33.5%	+45.4%	- 4.6%	+108.4%	+118.5%
1970-74	+ 6.7%	- 4.0%	+57.6%	-10.0%	+ 47.7%	+ 64.1%

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	4,974	26,688,743	460,307,000	5,366	92,543	17.25
1960	5,175	28,035,381	487,477,504	5,417	94,199	17.39
1961	5,588	29,454,151	489,799,166	5,271	87,652	16.63
1962	5,743	30,171,311	511,755,682	5,254	89,109	16.96
1963	4,689	24,626,510	392,325,056	5,252	83,669	15.93
1964	4,749	25,991,892	447,248,084	5,473	94,177	17.21
1965	4,654	25,113,417	418,669,590	5,396	89,959	16.67
1966	3,914	23,217,268	446,177,620	5,932	113,995	19.22
1967	3,390	19,821,779	401,857,713	5,847	118,542	20.27
1968	3,145	18,536,140	387,216,275	5,894	123,121	20.89
1969	3,705	21,237,340	439,917,416	5,732	118,736	20.71
1970	3,651	21,044,000	478,705,000	5,764	131,116	22.75
1971	3,494	20,086,735	471,309,152	5,749	134,891	23.46
1972	4,856	26,424,009	626,559,655	5,442	129,028	23.71
1973	6,243	34,368,694	843,960,359	5,505	135,185	24.56
1974	6,540	35,552,242	1,114,933,600	5,436	170,479	31.36
% CHANGE						
1965-74	+40.5%	+41.6%	+166.3%	+0.7%	+89.5%	+88.1%
1970-74	+79.1%	+68.9%	+132.9%	-5.7%	+30.0%	+37.8%

DRY HOLES

1959	18,977	79,735,011	775,839,000	4,202	40,883	9.73
1960	17,427	71,568,350	716,918,499	4,107	41,138	10.02
1961	16,926	71,393,988	706,003,668	4,218	41,711	9.89
1962	16,381	72,462,636	751,889,544	4,424	45,900	10.38
1963	16,072	71,272,882	679,103,111	4,435	42,254	9.53
1964	17,207	76,197,567	723,760,548	4,428	42,062	9.50
1965	15,535	71,075,468	681,175,250	4,575	43,848	9.58
1966	14,168	62,730,401	638,085,605	4,428	45,037	10.17
1967	12,587	57,590,338	591,049,820	4,575	46,957	10.26
1968	12,099	60,145,366	665,359,161	4,971	54,993	11.06
1969	12,255	63,091,716	708,336,269	5,148	57,800	11.23
1970	10,454	53,874,000	695,037,000	5,153	66,485	12.90
1971	9,566	49,877,591	646,412,548	5,214	67,574	12.96
1972	10,173	53,984,394	762,721,534	5,307	74,975	14.13
1973	9,713	51,957,041	827,228,251	5,349	85,167	15.92
1974	11,291	58,327,468	1,301,354,034	5,166	115,256	22.31
% CHANGE						
1965-74	-27.3%	-17.9%	+91.0%	+12.9%	+162.3%	+132.9%
1970-74	+ 8.0%	+ 8.3%	+87.2%	+ 0.3%	+ 73.4%	+ 72.9%

ONSHORE WELLS DRILLED

1953[1]	49,197	198,056,000	2,447,219,287	4,026	49,743	12.36
1955[1]	55,517	221,197,185	2,439,924,000	3,984	43,949	11.03
1956[1]	56,646	227,580,288	2,669,624,000	4,018	47,128	11.73
1959	49,087	200,755,462	2,468,737,000	4,090	50,293	12.30
1960	43,595	180,772,569	2,216,899,965	4,147	50,852	12.26
1961	43,382	180,584,748	2,166,926,895	4,163	49,950	12.00
1962	43,184	185,802,415	2,305,097,762	4,303	53,379	12.41
1963	41,067	173,309,830	2,011,653,417	4,220	48,985	11.61
1964	42,491	178,566,194	2,069,615,526	4,202	48,707	11.59
1965	38,559	167,816,484	1,973,613,885	4,352	51,184	11.76
1966	33,394	146,051,921	1,829,582,774	4,374	54,788	12.53
1967	30,173	131,088,086	1,685,026,453	4,345	55,846	12.85
1968	28,254	130,510,137	1,741,757,746	4,619	61,646	13.35
1969	28,290	137,055,349	1,944,533,863	4,845	68,736	14.19
1970	26,119	126,652,000	1,980,171,000	4,849	75,813	15.63
1971	24,156	115,636,560	1,848,874,443	4,787	76,539	15.99
1972	25,450	125,534,425	2,181,716,438	4,933	85,726	17.38
1973	25,356	128,306,687	2,496,218,326	5,060	98,447	19.46
1974	30,651	143,542,038	3,687,018,741	4,683	120,290	25.69
% CHANGE						
1965-74	-20.5%	-14.5%	+86.8%	+7.6%	+135.0%	+118.5%
1970-74	+17.4%	+13.3%	+86.2%	-3.4%	+ 58.7%	+ 64.4%

[1]/Data pertaining to well classification not available

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil and Gas Association.

April 1976

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, ONSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	15,993	63,641,299	2,003,955,253	3,979	125,302	31.49
1976	16,603	65,636,193	2,227,303,087	3,953	134,151	33.93
1977	17,789	72,089,963	2,654,029,888	4,052	149,195	36.82
1978	17,492	71,596,025	3,157,053,722	4,093	180,485	44.10
1979	18,894	77,020,983	3,983,757,002	4,076	210,847	51.73
% CHANGE						
1969-79	+53.2%	+46.1%	+404.1%	−4.7%	+229.0%	+245.1%
1974-79	+47.4	+55.1	+213.5	+5.2	+112.7	+102.1

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	7,383	40,613,623	1,667,555,125	5,501	225,864	41.06
1976	8,631	45,714,695	2,011,603,612	5,297	233,067	44.00
1977	11,086	58,790,972	2,924,519,836	5,303	263,803	49.74
1978	12,887	68,610,863	3,996,244,518	5,324	310,098	58.25
1979	13,626	72,733,130	5,010,426,429	5,337	367,710	68.90
% CHANGE						
1969-79	+267.8%	+242.5%	+1,038.9%	−6.9%	+209.7%	+232.7%
1974-79	+108.3	+104.6	+ 349.4	−1.8	+115.7	+119.7

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	12,556	63,604,041	1,725,506,826	5,066	137,425	27.13
1976	12,679	63,250,013	1,747,814,384	4,989	137,851	27.63
1977	13,734	70,293,622	2,321,990,226	5,118	169,069	33.03
1978	15,079	78,655,296	3,330,509,120	5,216	220,870	42.34
1979	14,743	75,365,528	3,877,721,739	5,111	263,021	51.46
% CHANGE						
1969-79	+20.3%	+19.5%	+447.4%	−0.7%	+355.1%	+358.2%
1974-79	+30.6	+29.2	+198.0	−1.1	+128.2%	+130.7%

ONSHORE WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	35,932	167,858,963	5,397,017,204	4,672	150,201	32.15
1976	37,913	174,600,901	5,986,721,083	4,605	157,907	34.29
1977	42,609	201,174,557	7,900,539,950	4,721	185,420	39.29
1978	45,458	218,862,184	10,483,807,360	4,814	230,626	47.91
1979	47,263	225,119,641	12,871,899,170	4,763	272,346	57.18
% CHANGE						
1969-79	+67.1%	+64.3%	+562.0%	−1.7%	+296.2%	+303.0%
1974-79	+54.2	+56.8%	+249.1	+1.7	+126.4	+122.6

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry", Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil & Gas Association

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, OFFSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	227	2,599,612	88,835,000	9,385	320,704	34.17
1960	301	2,865,023	98,197,143	9,518	326,236	34.27
1961	336	3,187,520	115,617,334	9,487	344,099	36.27
1962	342	3,326,026	119,019,601	9,725	348,011	35.78
1963	372	3,689,368	130,912,957	9,918	351,917	35.48
1964	477	4,612,212	164,388,006	9,669	344,629	35.64
1965	487	4,919,944	193,026,274	10,103	396,358	39.23
1966	544	5,449,362	240,434,042	10,017	441,974	44.12
1967	739	6,258,740	303,250,028	8,469	410,352	48.46
1968	757	6,627,424	390,146,022	8,755	515,384	58.87
1969	585	5,208,156	320,848,306	8,903	548,459	61.61
1970	533	4,683,000	281,628,000	8,786	528,382	60.14
1971	309	2,912,973	163,352,339	9,427	528,648	56.08
1972	332	3,273,524	213,035,847	9,860	641,674	65.08
1973	296	2,686,193	181,945,598	9,075	614,681	67.73
1974	253	2,102,914	169,594,672	8,312	670,335	80.65
% CHANGE						
1965-74	−48.1%	57.3%	−12.1%	−17.7%	+69.1%	+105.6%
1970-74	−52.5%	−55.1%	−39.8%	− 5.4%	+26.7%	+ 34.1%

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	75	896,709	48,588,000	11,956	647,840	54.18
1960	87	1,042,922	52,700,835	11,988	605,757	50.53
1961	86	990,249	47,654,757	11,515	554,125	48.12
1962	115	1,260,484	57,016,076	10,961	495,792	45.23
1963	90	1,051,158	49,100,635	11,680	545,563	46.71
1964	125	1,501,956	63,316,005	12,016	506,528	42.16
1965	118	1,379,717	67,430,379	11,693	571,444	48.87
1966	146	1,756,848	97,073,943	12,033	664,890	55.25
1967	168	1,939,838	99,803,218	11,547	594,067	51.45
1968	179	1,995,683	106,519,840	11,149	595,083	53.38
1969	222	2,457,839	166,087,991	11,071	748,144	67.57
1970	193	2,049,000	138,878,000	10,617	719,575	67.78
1971	185	2,035,105	141,544,606	11,001	765,106	69.55
1972	230	2,460,625	175,825,867	10,698	764,460	71.46
1973	193	1,968,168	153,971,193	10,198	797,778	78.23
1974	155	1,578,821	151,606,723	10,186	978,108	96.02
% CHANGE						
1965-74	+31.4%	+14.4%	+124.8%	−12.9%	+71.2%	+96.5%
1970-74	−19.7%	−23.0%	+ 9.2%	− 4.1%	+35.9%	+41.7%

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	124	1,260,615	44,936,000	10,166	362,387	35.65
1960	150	1,700,433	56,620,365	11,336	337,469	33.30
1961	184	1,906,624	67,963,659	10,362	369,368	35.65
1962	303	3,168,241	95,541,920	10,456	315,320	30.16
1963	324	3,429,706	111,196,941	10,586	343,200	32.42
1964	393	4,065,165	130,047,649	10,344	330,910	31.99
1965	432	4,588,937	167,365,988	10,623	387,421	36.47
1966	437	4,664,125	193,649,552	10,673	443,134	41.52
1967	458	4,719,526	211,098,687	10,305	460,914	44.73
1968	386	3,995,520	170,936,791	10,351	442,841	42.78
1969	384	3,983,883	179,201,104	10,375	466,670	44.98
1970	332	3,506,000	178,005,000	10,560	536,160	50.77
1971	390	4,059,347	217,720,125	10,409	558,257	53.63
1972	431	4,266,964	243,587,637	9,900	565,169	57.09
1973	399	3,699,708	242,397,135	9,272	607,512	65.52
1974	422	3,720,521	358,768,666	8,816	850,163	96.43
% CHANGE						
1965-74	− 2.3%	−18.9%	+114.4%	−17.0%	+119.4%	+164.4%
1970-74	+27.1%	+ 6.1%	+101.5%	−16.5%	+ 58.6%	+ 89.9%

OFFSHORE WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1953[1]/	82[2]/	783,000	24,499,000	9,549	298,768	[illegible].29
1955[1]/	414[3]/	3,959,846	160,219,000	9,565	387,002	40.46
1956[1]/	479[4]/	4,593,420	198,786,000	9,590	415,002	43.28
1959	476	4,756,936	182,359,000	9,994	383,107	38.34
1960	538	5,608,378	207,518,343	10,424	385,722	37.00
1961	606	6,084,393	231,235,750	10,040	381,577	38.00
1962	760	7,754,751	271,577,597	10,204	357,339	35.02
1963	786	8,170,232	291,210,533	10,395	370,497	35.64
1964	995	10,179,333	357,751,66[illegible]	10,230	359,549	35.14
1965	1,037	10,888,598	427,822,64[illegible]	10,500	412,558	39.29
1966	1,127	11,870,335	531,157,537	10,533	471,302	44.75
1967	1,365	12,917,704	614,151,933	9,464	449,928	47.54
1968	1,322	12,618,627	667,602,653	9,545	504,994	52.91
1969	1,191	11,649,878	666,137,401	9,782	559,309	57.18
1970	1,058	10,238,000	598,511,000	9,677	565,700	58.46
1971	884	9,007,425	522,617,070	10,189	591,196	58.02
1972	993	10,001,113	632,449,351	10,072	636,908	63.24
1973	888	8,354,069	578,313,926	9,408	651,254	69.23
1974	830	7,402,256	679,970,061	8,918	819,24[illegible]	91.86
% CHANGE						
1965-74	−20.0%	−32.0%	+58.9%	−15.1%	+98.6%	+133.8%
1970-74	−22.0%	−27.7%	+13.6%	− 7.8%	+44.8%	+ 57.1%

[1]/ Data pertaining to well classification not available

[2]/ Louisiana only

[3]/ Includes Louisana and Texas

[4]/ Includes Louisiana, Texas and California

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil and Gas Association

April 1976

UNITED STATES
ESTIMATED DRILLING COSTS BY WELL CLASSIFICATION, OFFSHORE

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	283	2,426,503	252,551,719	8,574	892,409	104.08
1976	275	2,620,987	322,349,526	9,531	1,172,180	122.99
1977	288	2,570,380	418,724,648	8,924	1,453,905	162.90
1978	298	2,814,739	542,971,356	9,445	1,822,051	192.91
1979	349	3,240,020	694,803,364	9,283	1,990,841	214.46
% CHANGE						
1969-79	−40.3%	−37.8%	+116.6%	+ 4.3%	+263.0%	+248.1%
1974-79	+37.9	+54.1	+309.7	+11.7	+197.0	+165.9

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	271	2,762,301	337,855,300	10,193	1,246,699	122.31
1976	273	2,651,086	395,814,965	9,711	1,449,872	149.30
1977	393	3,722,271	674,578,971	9,471	1,716,486	181.23
1978	419	4,208,599	982,577,287	10,044	2,345,053	233.48
1979	453	4,606,734	1,227,705,600	10,169	2,710,166	266.51
% CHANGE						
1969-79	+104.1%	+ 87.4%	+639.2%	−8.1%	+262.2%	+294.4%
1974-79	+192.3	+191.8	+709.8	−0.2	+177.1	+177.6

DRY HOLES

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	474	4,594,372	583,789,700	9,693	1,231,624	127.06
1976	480	4,545,171	756,794,687	9,469	1,576,656	166.51
1977	536	5,227,200	962,609,475	9,752	1,795,913	184.15
1978	480	4,733,406	1,051,734,031	9,861	2,191,112	222.20
1979	458	4,545,747	1,284,522,234	9,925	2,804,633	282.58
% CHANGE						
1969-79	+19.3%	+14.1%	+616.8%	− 4.3%	+501.0%	+528.2%
1974-79	+ 8.5%	+22.2%	+258.0%	+12.6	+229.9	+193.0

OFFSHORE WELLS DRILLED

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	1,028	9,783,176	1,174,196,719	9,517	1,142,215	120.02
1976	1,028	9,817,244	1,474,959,178	9,550	1,434,785	150.24
1977	1,217	11,519,851	2,055,913,094	9,466	1,689,329	178.47
1978	1,197	11,756,744	2,577,282,674	9,821	2,153,118	219.24
1979	1,260	12,392,501	3,207,031,198	9,835	2,545,262	258.80
% CHANGE						
1969-79	+ 5.8%	+ 6.4%	+381.4%	+ 0.5%	+355.1%	+352.6%
1974-79	+51.8	+67.4	+371.6	+10.3	+210.7	+181.7

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry", Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil & Gas Association

UNITED STATES
ESTIMATED DRILLING COSTS, ALL WELLS BY CLASSIFICATION

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	25,413	96,931,320	1,321,426,000	3,814	51,998	13.63
1960	21,294	84,033,861	1,110,701,105	3,946	52,160	13.22
1961	21,204	82,924,129	1,086,761,395	3,911	51,253	13.11
1962	21,402	86,494,494	1,160,472,137	4,041	54,223	13.42
1963	20,678	81,099,806	1,071,138,207	3,922	51,801	13.21
1964	21,012	80,988,857	1,062,994,900	3,854	50,590	13.13
1965	18,857	76,547,513	1,066,795,319	4,059	56,573	13.94
1966	15,856	65,553,614	985,753,591	4,134	62,169	15.04
1967	14,935	59,934,309	995,368,948	4,013	66,647	16.61
1968	13,767	58,456,055	1,089,328,359	4,246	79,126	18.63
1969	12,915	57,934,449	1,117,128,484	4,486	86,499	19.28
1970	12,547	56,417,000	1,088,057,000	4,496	86,718	19.29
1971	11,405	48,585,207	894,505,082	4,260	78,431	18.41
1972	10,753	48,399,546	1,005,471,096	4,501	93,506	20.77
1973	9,705	44,667,140	1,006,975,314	4,602	103,758	22.54
1974	13,073	51,765,242	1,440,325,779	3,960	110,176	27.82
% CHANGE						
1965-74	-30.7%	-32.4%	+35.0%	-2.4%	+94.8%	+99.7%
1970-1974	+4.2%	-8.3%	+32.4%	-11.9%	+27.1%	+44.2%

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1959	5,049	27,585,452	508,895,000	5,464	100,791	18.45
1960	5,262	29,078,303	540,179,339	5,526	102,656	18.58
1961	5,674	30,444,400	537,433,923	5,366	94,719	17.65
1962	5,858	31,431,795	568,771,758	5,366	97,093	18.10
1963	4,779	25,677,668	441,425,691	5,373	92,368	17.19
1964	4,874	27,493,848	510,564,089	5,641	104,753	18.57
1965	4,772	26,493,164	486,099,969	5,552	101,865	18.35
1966	4,060	24,974,116	543,251,563	6,151	133,806	21.75
1967	3,558	21,761,617	501,660,931	6,116	140,995	23.05
1968	3,324	20,531,823	493,736,115	6,177	148,537	24.05
1969	3,927	23,695,179	606,005,407	6,034	154,318	25.58
1970	3,844	23,093,000	617,583,000	6,007	160,662	26.74
1971	3,679	22,121,840	612,853,758	6,013	166,582	27.70
1972	5,086	28,884,634	802,385,522	5,679	157,764	27.78
1973	6,427	36,336,867	997,931,552	5,654	155,272	27.46
1974	6,695	37,131,063	1,266,540,323	5,546	189,177	34.11
% CHANGE						
1965-74	+40.3%	+40.2%	+160.6%	-0.1%	+85.7%	+85.9%
1970-1974	+74.2%	+60.8%	+105.1%	-7.7%	+17.7%	+27.6%

DRY HOLES

1959	19,101	80,995,626	820,775,000	4,240	42,970	10.13
1960	17,577	73,268,783	773,538,864	4,168	44,009	10.56
1961	17,110	73,300,612	773,967,327	4,284	45,235	10.56
1962	16,684	75,630,877	847,431,464	4,533	50,793	11.20
1963	16,396	74,702,588	790,300,052	4,556	48,201	10.58
1964	17,600	80,262,732	853,808,197	4,560	48,512	10.64
1965	15,967	75,664,405	848,541,238	4,739	53,143	11.21
1966	14,605	67,394,526	831,735,157	4,614	56,949	12.34
1967	13,045	62,309,854	802,148,507	4,777	61,491	12.87
1968	12,485	64,140,886	826,295,925	5,137	66,183	12.88
1969	12,639	67,075,559	887,537,373	5,307	70,222	13.23
1970	10,786	57,380,000	873,042,000	5,320	80,942	15.22
1971	9,956	53,936,938	864,132,673	5,418	86,795	16.02
1972	10,604	58,251,358	1,006,309,171	5,493	94,899	17.28
1973	10,112	55,656,749	1,069,625,386	5,504	105,778	19.22
1974	11,713	62,047,989	1,660,122,700	5,297	141,733	26.76
% CHANGE						
1965-1974	-26.6%	-18.0%	+95.6%	+11.8%	+166.7%	+138.7%
1970-1974	+8.6%	+8.1%	+90.2%	-0.4%	+75.1%	+75.8%

TOTAL WELLS DRILLED

1953[1]	49,279	198,839,000	2,471,718,287	4,035	50,158	12.43
1955[1]	55,931	225,157,031	2,600,143,000	4,026	46,488	11.55
1956[1]	57,125	232,173,708	2,868,410,000	4,084	50,213	12.35
1959	49,563	205,512,398	2,651,096,000	4,146	53,500	12.90
1960	44,133	186,380,947	2,424,418,308	4,223	54,934	13.01
1961	43,988	186,669,141	2,398,162,645	4,244	54,518	12.85
1962	43,944	193,557,166	2,576,675,359	4,405	58,635	13.31
1963	41,853	181,480,062	2,302,863,950	4,336	55,023	12.69
1964	43,486	188,745,437	2,427,367,186	4,340	55,820	12.86
1965	39,596	178,705,082	2,407,436,526	4,513	60,648	13.44
1966	34,521	157,922,256	2,360,740,311	4,575	68,386	14.95
1967	31,538	144,005,790	2,299,178,386	4,566	72,902	15.97
1968	29,576	143,128,764	2,409,360,399	4,839	81,463	16.83
1969	29,481	148,705,227	2,610,671,264	5,044	88,554	17.56
1970	27,177	136,890,000	2,578,682,000	5,037	94,885	18.84
1971	25,040	124,643,985	2,371,491,513	4,978	94,708	19.03
1972	26,443	135,535,538	2,814,165,789	5,126	106,424	20.76
1973	26,244	136,660,756	3,074,532,252	5,207	117,152	22.50
1974	31,481	150,944,294	4,366,988,802	4,795	138,718	28.93
% CHANGE						
1959-1974	-36.5%	-26.6%	+64.7%	+15.7%	+159.3%	+124.3%
1965-1974	-20.5%	-15.5%	+81.8%	+6.2%	+128.7%	+115.3%
1970-1974	+15.8%	+10.3%	+69.3%	-4.8%	+46.2%	+53.6%

[1] Data pertaining to well classification not available

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry" Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil and Gas Association

April 1976

UNITED STATES
ESTIMATED DRILLING COSTS, ALL WELLS BY CLASSIFICATION

OIL WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	16,276	66,067,802	2,256,506,972	4,059	138,640	34.15
1976	16,876	68,257,180	2,549,652,613	4,044	151,064	37.35
1977	18,077	74,660,343	3,072,754,536	4,130	169,981	41.16
1978	17,790	74,410,764	3,700,025,078	4,182	207,983	49.73
1979	19,243	80,261,003	4,678,560,366	4,170	243,130	58.30
% CHANGE						
1969-79	+49.0%	+38.5%	+318.6%	−7.0%	+181.1%	+202.4
1974-79	+47.2	+55.0	+224.8	+5.3%	+120.7	+109.6

GAS WELLS

Year	Total Wells	Total Footage	Total Costs ($)	Avg. Depth Per Well (ft.)	Avg. Cost Per Well ($)	Avg. Cost Per Foot ($)
1975	7,654	43,375,924	2,005,410,425	5,667	262,008	46.23
1976	8,904	48,356,781	2,407,418,577	5,432	270,375	49.78
1977	11,479	62,513,243	3,599,098,807	5,446	313,538	57.57
1978	13,306	72,819,462	4,978,821,805	5,472	374,178	68.38
1979	14,079	77,339,864	6,238,126,029	5,493	443,080	80.66
% CHANGE						
1969-79	+258.5%	+226.4%	+929.4%	−9.1%	+187.1%	+215.3%
1974-79	+110.3	+108.3	+392.5%	−1.1	+134.2	+136.5

DRY HOLES

1975	13,030	68,198,413	2,309,296,526	5,234	177,229	33.86
1976	13,159	67,795,184	2,504,609,071	5,152	190,334	36.94
1977	14,270	75,520,822	3,284,599,701	5,292	230,175	43.49
1978	15,559	83,388,702	4,382,243,151	5,359	281,653	52.56
1979	15,201	79,911,275	5,162,243,973	5,256	339,598	64.61
% CHANGE						
1969-79	+20.3%	+19.1%	+481.6%	−1.0%	+383.6%	+388.4%
1974-79	+29.8	+28.8%	+211.0%	−0.8	+139.6	+141.4

TOTAL WELLS DRILLED

1975	36,960	177,642,139	6,571,213,923	4,806	177,793	36.99
1976	38,941	184,418,145	7,461,680,261	4,736	191,615	40.46
1977	43,826	212,694,408	9,956,453,044	4,853	229,181	46.82
1978	46,655	230,618,928	13,061,090,034	4,943	279,950	56.64
1979	48,523	237,512,142	16,078,930,368	4,894	331,367	67.71
% CHANGE						
1969-79	+64.6%	+59.7%	+515.9%	−3.0%	+274.2%	+285.6%
1974-79	+54.1	+57.4	+268.2	+2.1	+138.9	+134.1

Source: "Joint Association Survey of the U.S. Oil and Gas Producing Industry", Annual, American Petroleum Institute, Independent Petroleum Association of America, Mid-Continent Oil & Gas Association

FREE WORLD TOTAL WELL COMPLETIONS

Area/Country	1970		1971		1972		1973	
	Total	% of Free World Total	Total	% of Free World Total	Total	% of Free World Total	Total	% of Free World Total
United States	29,467	80.8%	27,300	78.5%	28,755	78.8%	27,602	75.4%
Canada	3,108	8.5	3,175	9.1	3,548	9.7	4,621	12.6
Mexico	502	1.4	516	1.5	431	1.2	422	1.2
Total North America	33,077	90.7	30,991	89.1	32,734	89.7	32,645	89.2
Argentina	579	1.6	595	1.7	623	1.7	597	1.6
Brazil	177	0.5	175	0.5	179	0.5	128	0.3
Ecuador	37	0.1	81	0.2	59	0.2	58	0.2
Peru	135	0.4	121	0.3	117	0.3	89	0.2
Trinidad-Tobago	135	0.4	220	0.6	196	0.5	212	0.6
Venezuela	589	1.6	464	1.3	371	1.0	427	1.2
Other	177	0.5	189	0.5	158	0.4	127	0.3
Total Latin America	1,829	5.0	1,849	5.3	1,703	4.7	1,638	4.5
Total Western Hemisphere	**34,906**	**95.8**	**32,835**	**94.4**	**34,437**	**94.3**	**34,283**	**93.7**
Denmark – North Sea	3	3/	3	3/	3	3/	4	3/
Netherlands – North Sea	12	3/	20	3/	18	3/	16	3/
Norway – North Sea	15	3/	14	3/	16	3/	17	3/
United Kingdom – North Sea	58	0.2	63	0.2	70	0.2	76	0.2
Total North Sea	88	0.2	100	0.3	107	0.3	113	0.3
Other European	274	0.8	318	0.9	352	1.0	287	0.8
Total Europe	362	1.0	418	1.2	459	1.3	400	1.1
Algeria	115	0.3	109	0.3	80	0.2	83	0.2
Gabon	26	3/	36	0.1	36	0.1	44	0.1
Libya	250	0.7	87	0.3	77	0.2	74	0.2
Nigeria	168	0.5	207	0.6	258	0.7	239	0.7
Other	150	0.4	214	0.6	194	0.5	157	0.4
Total Africa	709	1.9	653	1.9	645	1.8	597	1.6
Abu Dhabi 1/	7	3/	19	3/	37	0.1	37	0.1
Dubai 1/	0	3/	7	3/	16	3/	18	3/
Sharjah 1/	0	3/	2	3/	2	3/	2	3/
Iran	44	0.1	104	0.3	61	0.2	81	0.2
Iraq	6	3/	17	3/	0	3/	16	3/
Kuwait 2/	13	3/	8	3/	2	3/	0	3/
Saudi Arabia 2/	43	0.1	56	0.2	178	0.5	323	0.9
Neutral Zone 2/	23	3/	12	3/	9	3/	13	3/
Qatar	7	3/	10	3/	8	3/	9	3/
Oman	27	3/	0	3/	56	0.2	49	0.1
Other	72	0.2	58	0.2	56	0.2	61	0.2
Total Middle East	242	0.7	293	0.8	425	1.2	609	1.7
Indonesia	84	0.2	422	1.2	312	0.9	501	1.4
Other	162	0.4	157	0.5	223	0.6	197	0.5
Total Far East	246	0.7	579	1.7	535	1.5	698	1.9
Total Eastern Hemisphere	**1,559**	**4.3**	**1,943**	**5.6**	**2,064**	**5.7**	**2,304**	**6.3**
TOTAL FREE WORLD	**36,465**	**100.0**	**34,779**	**100.0**	**36,501**	**100.0**	**36,587**	**100.0**

1/ Member of United Arab Emirates

2/ Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis

3/ Less than one-tenth of one percent

Source: United States, American Association of Petroleum Geologists and American Petroleum Institute
Rest of Free World, Oil and Gas Journal

FREE WORLD TOTAL WELL COMPLETIONS

Area/Country	1974 Total	1974 % of Free World Total	1975 Total	1975 % of Free World Total	1976 Total	1976 % of Free World Total	1977 Total	1977 % of Free World Total
United States	32,893	78.7%	39,097	81.8%	41,455	79.5%	46,479	80.9%
Canada	4,227	10.1	4,242	8.9	6,221	11.9	6,197	10.8
Mexico	408	1.0	353	0.7	336	0.6	307	0.5
Total North America	37,528	89.7	43,692	91.4	48,012	92.0	52,983	92.2
Argentina	606	1.4	552	1.2	646	1.2	647	1.1
Brazil	176	0.4	228	0.5	288	0.6	245	0.4
Ecuador	37	[3]	15	[3]	19	[3]	16	[3]
Peru	152	0.4	161	0.3	150	0.3	160	0.3
Trinidad-Tobago	200	0.5	189	0.4	192	0.4	217	0.4
Venezuela	416	1.0	284	0.6	337	0.6	446	0.8
Other	140	0.3	128	0.3	156	0.3	194	0.3
Total Latin America	1,727	4.1	1,557	3.3	1,788	3.4	1,925	3.4
Total Western Hemisphere	39,255	93.9	45,249	94.7	49,800	95.5	54,908	95.6
Total North Sea	176	0.4	207	0.4	210	0.4	166	0.3
Other European	313	0.7	369	0.8	345	0.7	410	0.7
Total Europe	489	1.1	576	1.2	555	1.1	576	1.0
Algeria	79	0.2	107	0.2	54	0.1	130	0.2
Gabon	59	0.1	49	0.1	44	[3]	31	[3]
Libya	79	0.2	66	0.1	64	0.1	109	0.2
Nigeria	249	0.6	192	0.4	143	0.3	118	0.2
Other	162	0.4	191	0.4	130	0.2	208	0.4
Total Africa	628	1.5	605	1.3	435	0.8	596	1.0
Abu Dhabi[1]	64	0.2	49	0.1	82	0.2	67	0.1
Dubai[1]	17	[3]	17	[3]	30	0.1	31	0.1
Sharjah[1]	3	[3]	2	[3]	1	[3]	0	—
Iran	100	0.2	140	0.3	182	0.3	185	0.3
Iraq	2	[3]	0	—	2	[3]	NA	—
Kuwait[2]	0	0	0	—	8	[3]	0	0
Saudi Arabia[2]	300	0.7	210	0.4	163	0.3	180	0.3
Neutral Zone[2]	19	[3]	14	[3]	15	[3]	4	[3]
Qatar	2	[3]	7	[3]	4	[3]	2	[3]
Oman	40	[3]	55	0.1	42	0.1	51	0.1
Other	83	0.2	102	0.2	75	0.1	124	0.2
Total Middle East	630	1.5	596	1.2	604	1.2	644	1.1
Indonesia	630	1.5	588	1.2	513	1.0	409	0.7
Other	180	0.4	157	0.3	229	0.4	295	0.5
Total Far East	810	1.9	745	1.5	742	1.4	704	1.2
Total Eastern Hemisphere	2,557	6.1	2,522	5.3	2,336	4.5	2,520	4.4
TOTAL FREE WORLD	41,812	100.0	47,771	100.0	52,136	100.00	57,428	100.0

[1] Member of United Arab Emirates
[2] Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis
[3] Less than one-tenth of one percent
NA Not Available

Source: United States, American Petroleum Institute
Rest of Free World, Oil and Gas Journal, American Association of Petroleum Geologists

Section III
Table 11b

FREE WORLD TOTAL COMPLETIONS

Area/Country	1978 Total	1978 % of Free World Total
United States	48,513	79.2%
Canada	7,170	11.7
Mexico	406	0.7
Total North America	56,089	91.6
Argentina	865	1.4
Brazil	256	0.4
Ecuador	16	[3]
Peru	157	0.3
Trinidad-Tobago	215	0.4
Venezuela	637	1.0
Other	183	0.3
Total Latin America	2,329	3.8
Total Western Hemisphere	58,418	95.4
Total North Sea	134	0.2
Other European	525	0.9
Total Europe	659	1.1
Algeria	60	0.1
Gabon	35	[3]
Libya	177	0.3
Nigeria	104	0.2
Other	208	0.3
Total Africa	584	0.9
Abu Dhabi[1]	78	0.1
Dubai[1]	12	[3]
Sharjah[1]	0	—
Iran	180	0.3
Iraq	NA	—
Kuwait[2]	0	—
Saudi Arabia[2]	145	0.2
Neutral Zone[2]	0	—
Qatar	2	[3]
Oman	61	0.1
Other	107	0.2
Total Middle East	585	1.0
Indonesia	536	0.9
Other	440[4]	0.7
Total Far East	976	1.6
Total Eastern Hemisphere	2,804	4.6
TOTAL FREE WORLD	61,222	100.0

---

[1] Member of United Arab Emirates
[2] Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis
[3] Less than one-tenth of one percent
[4] Includes Oceania
NA Not Available

Source: United States, American Petroleum Institute
Canada and Mexico, AAPG, North American Drilling Activity
Rest of World, Oil and Gas Journal, Worldwide Issue

January 1980

FREE WORLD TOTAL EXPLORATORY WELL COMPLETIONS

Area/Country	1970		1971		1972		1973	
	Total	% of Free World Total	Total	% of Free World Total	Total	% of Free World Total	Total	% of Free World Total
United States	7,693	73.0%	6,922	70.9%	7,539	71.5%	7,466	68.0%
Canada	1,537	14.6	1,534	15.7	1,633	15.5	2,219	20.2
Mexico	130	1.2	129	1.3	143	1.4	104	0.9
Total North America	9,360	88.8	8,585	87.9	9,315	88.4	9,789	89.2
Argentina	113	1.1	157	1.6	110	1.0	139	1.3
Brazil	100	0.9	87	0.9	80	0.8	78	0.7
Ecuador	20	0.2	15	0.2	20	0.2	8	0.1
Peru	28	0.3	21	0.2	25	0.2	31	0.3
Trinidad-Tobago	23	0.2	35	0.4	23	0.2	15	0.1
Venezuela	90	0.9	44	0.5	64	0.6	63	0.6
Other	70	0.7	60	0.6	77	0.7	50	0.5
Total Latin America	444	4.2	419	4.3	399	3.8	384	3.5
Total Western Hemisphere	**9,804**	**93.0**	**9,004**	**92.2**	**9,714**	**92.2**	**10,173**	**92.7**
Denmark – North Sea	3	3/	3	3/	1	3/	4	3/
Netherlands – North Sea	11	0.1	15	0.2	11	0.1	13	0.1
Norway – North Sea	13	0.1	13	0.1	14	0.1	13	0.1
United Kingdom – North Sea	39	0.4	22	0.2	25	0.2	40	0.4
Total North Sea	66	0.6	53	0.5	51	0.5	70	0.6
Other European	93	0.9	146	1.5	159	1.5	147	1.4
Total Europe	159	1.5	199	2.0	210	2.0	217	2.0
Algeria	37	0.4	25	0.3	10	0.1	13	0.1
Gabon	13	0.1	11	0.1	17	0.2	15	0.1
Libya	51	0.5	41	0.4	34	0.3	25	0.2
Nigeria	31	0.3	55	0.6	61	0.6	45	0.4
Other	131	1.2	125	1.3	101	1.0	80	0.7
Total Africa	263	2.5	257	2.6	223	2.1	178	1.6
Abu Dhabi[1/]	7	0.1	8	0.1	21	0.2	7	0.1
Dubai[1/]	0	-	0	-	0	-	1	3/
Sharjah[1/]	0	-	2	3/	1	3/	0	-
Iran	11	0.1	6	0.1	2	3/	18	0.2
Iraq	1	3/	0	-	0	-	3	3/
Kuwait[2/]	1	3/	2	3/	0	-	0	-
Saudi Arabia[2/]	2	3/	2	3/	6	3/	3	3/
Neutral Zone[2/]	0	-	0	-	0	-	0	-
Qatar	2	3/	1	3/	6	3/	1	3/
Oman	2	3/	0	-	16	0.2	0	-
Other	46	0.4	27	0.3	29	0.3	32	0.3
Total Middle East	72	0.7	48	0.5	81	0.8	65	0.6
Indonesia	84	0.8	135	1.4	137	1.3	169	1.5
Other	162	1.5	126	1.3	175	1.7	173	1.6
Total Far East	246	2.3	261	2.7	312	3.0	342	3.1
Total Eastern Hemisphere	**740**	**7.0**	**765**	**7.8**	**826**	**7.8**	**802**	**7.3**
TOTAL FREE WORLD	**10,544**	**100.0**	**9,769**	**100.0**	**10,540**	**100.0**	**10,975**	**100.0**

1/ Member of United Arab Emirates

2/ Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis

3/ Less than one-tenth of one percent

Source: United States, American Association of Petroleum Geologists and American Petroleum Institute
Rest of Free World, Oil and Gas Journal

FREE WORLD TOTAL EXPLORATORY WELL COMPLETIONS

Area/Country	1974		1975		1976		1977	
	Total	% of Free World Total	Total	% of Free World Total	Total	% of Free World Total	Total	% of Free World Total
United States	8,619	73.7%	9,214	75.6%	9,234	71.3%	9,961	70.9%
Canada	1,735	14,8	1,649	13.5	2,481	19.1	2,801	19.9
Mexico	98	0.8	87	0.7	79	0.6	79	0.6
Total North America	10,452	89.3	10,950	89.9	11,794	91.0	12,841	91.4
Argentina	117	1.0	78	0.6	83	0.6	143	1.0
Brazil	86	0.7	87	0.7	105	0.8	155	0.7
Ecuador	5	[3]	3	[3]	3	[3]	5	[3]
Peru	43	0.4	43	0.4	36	0.3	37	0.3
Trinidad-Tobago	13	0.1	14	0.1	23	0.2	17	0.1
Venezuela	76	0.6	35	0.3	45	0.3	48	0.3
Other	65	0.5	61	0.5	67	0.5	56	0.4
Total Latin America	405	3.5	321	2.6	362	2.8	406	2.9
Total Western Hemisphere	10,857	92.8	11,271	92.5	12,156	93.8	13,247	94.3
Total North Sea	92	0.8	124	1.0	109	0.8	21	0.2
Other European	151	1.3	172	1.4	163	1.3	231	1.6
Total Europe	243	2.1	296	2.4	272	2.1	252	1.8
Algeria	9	[3]	17	0.1	11	0.1	11	0.1
Gabon	13	0.1	23	0.2	19	0.1	19	0.1
Libya	32	0.3	36	0.3	22	0.2	33	0.2
Nigeria	51	0.4	33	0.3	21	0.2	24	0.3
Other	86	0.7	91	0.7	89	0.7	117	0.8
Total Africa	191	1.6	200	1.6	162	1.3	204	1.5
Abu Dhabi[1]	3	[3]	0	—	9	[3]	5	[3]
Dubai[1]	0	—	0	—	5	[3]	9	0.1
Sharjah[1]	0	—	0	—	1	[3]	0	0
Iran	27	0.2	26	0.2	26	0.2	25	0.2
Iraq	2	[3]	0	—	2	[3]	NA	NA
Kuwait[2]	0	—	0	—	2	[3]	0	0
Saudi Arabia[2]	4	[3]	9	[3]	24	0.2	4	[3]
Neutral Zone[2]	0	8	0	—	0	—	0	0
Qatar	0	—	0	—	0	—	0	0
Oman	0	—	0	—	0	—	10	0.1
Other	34	0.2	65	0.5	51	0.4	46	0.3
Total Middle East	70	0.6	100	0.8	120	0.9	99	0.7
Indonesia	176	1.5	186	1.6	130	1.0	115	0.8
Other	162	1.4	127	1.0	119	0.9	132	1.0
Total Far East	338	2.9	313	2.6	249	1.9	247	1.8
Total Eastern Hemisphere	842	7.2	909	7.5	803	6.2	802	5.8
TOTAL FREE WORLD	11,699	100.0	12,180	100.0	12,959	100.0	14,049	100.0

---

[1] Member of United Arab Emirates

[2] Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis

[3] Less than one-tenth of one percent

N.A. Not Available

Source: United States, American Petroleum Institute
Rest of Free World, Oil and Gas Journal, American Association of Petroleum Geologists

Section III
Table 12b

FREE WORLD TOTAL EXPLORATORY WELL COMPLETIONS

	1978	
Area/Country	Total	% of Free World Total
United States	10,677	70.0%
Canada	3,144	20.6
Mexico	83	0.6
Total North America	13,904	91.2
Argentina	81	0.5
Brazil	89	0.6
Ecuador	3	[3]
Peru	28	0.2
Trinidad-Tobago	8	[3]
Venezuela	60	0.4
Other	60	0.4
Total Latin America	329	2.1
Total Western Hemisphere	14,233	93.3
Total North Sea	38	0.3
Other European	259	1.7
Total Europe	297	2.0
Algeria	3	[3]
Gabon	20	0.1
Libya	41	0.3
Nigeria	35	0.2
Other	102	0.7
Total Africa	201	1.3
Abu Dhabi[1]	19	0.1
Dubai[1]	5	[3]
Sharjah[1]	0	—
Iran	10	[3]
Iraq	NA	—
Kuwait[2]	0	—
Saudi Arabia[2]	25	0.2
Neutral Zone[2]	0	—
Qatar	0	—
Oman	24	0.2
Other	39	0.3
Total Middle East	122	0.8
Indonesia	146	1.0
Other	249[4]	1.6
Total Far East	395	2.6
Total Eastern Hemisphere	1,015	6.7
TOTAL FREE WORLD	15,248	100.0

---

[1] Member of United Arab Emirates

[2] Saudi Arabia and Kuwait share the production from the Neutral Zone on an equal basis

[3] Less than one-tenth of one percent

[4] Includes Oceania

NA Not Available

Source: United States, American Petroleum Institute
Canada and Mexico, AAPG, North American Drilling Activity
Rest of World, Oil and Gas Journal, Worldwide Issue

January 1980

U.S. ANNUAL AVERAGE ROTARY RIG ACTIVITY BY STATE

	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965
Alabama	2	4	5	9	8	3	2	8	8	7	7	4	5	6	5	2	1
Alaska	0	0	0	0	0	0	0	0	0	0	0	5	9	9	6	5	6
Arkansas	18	17	17	19	26	20	16	17	23	20	14	12	14	13	10	9	11
Arizona	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	2	1
California	173	134	157	165	169	138	143	119	97	80	93	80	82	97	85	93	89
Colorado	9	11	25	34	43	66	75	60	47	36	43	35	27	30	23	21	19
Florida	7	2	1	3	6	3	2	1	1	1	0	2	1	1	0	1	4
Georgia	0	0	0	2	1	0	0	0	0	0	0	1	1	0	1	0	0
Idaho	0	2	0	2	1	0	0	0	0	0	0	0	0	0	1	0	0
Illinois	68	66	61	66	69	80	96	75	49	46	37	37	37	32	25	20	24
Indiana	22	25	23	22	18	8	7	9	6	7	7	8	4	6	6	6	5
Iowa	0	0	0	0	0	1	2	1	2	3	2	0	1	1	1	0	0
Kansas	115	129	165	162	164	157	178	169	155	130	138	112	105	101	96	87	70
Kentucky	6	12	19	17	15	16	12	10	9	6	7	6	5	6	10	8	12
Louisiana	239	231	243	257	280	312	401	442	423	309	332	287	275	261	265	282	270
Maryland	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	2	2
Michigan	19	14	21	17	18	16	12	12	12	9	26	35	23	15	14	13	11
Mississippi	31	30	39	29	28	32	33	25	34	44	67	61	58	46	46	39	35
Missouri	0	0	0	0	1	0	0	1	1	1	0	1	1	1	1	0	0
Montana	10	8	14	36	41	31	38	38	29	23	22	20	23	27	22	21	26
Nebraska	1	9	15	17	15	24	37	32	32	22	25	23	26	16	12	11	10
Nevada	0	0	0	0	1	2	1	1	0	0	1	0	1	0	0	1	2
New Mexico	48	56	97	149	162	98	117	132	144	109	113	106	102	94	84	79	65
New York	0	0	0	0	0	0	0	1	0	1	1	1	1	2	1	1	1
North Carolina	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
North Dakota	0	1	4	24	31	32	23	24	31	33	30	16	15	14	9	14	12
Ohio	0	0	0	0	1	1	2	1	0	2	3	5	7	8	12	56	22
Oklahoma	238	269	302	326	344	330	326	286	243	204	226	179	197	174	158	158	163
Oregon	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1
Pennsylvania	0	0	0	4	8	10	5	5	12	10	11	10	8	9	12	11	9
South Dakota	0	1	1	1	3	2	2	1	1	1	4	1	1	1	1	1	2
Tennessee	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0
Texas	922	1,063	1,230	1,173	1,039	1,018	1,059	1,054	951	719	750	604	628	570	500	477	425
Utah	11	4	16	23	15	14	13	21	47	37	32	29	33	29	22	17	14
Virginia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Washington	0	0	0	0	1	0	0	1	1	0	1	1	1	1	1	0	0
West Virginia	0	0	0	0	1	2	1	2	3	4	6	5	9	13	14	16	24
Wyoming	78	65	88	83	102	90	79	71	65	58	74	63	58	53	55	48	50
TOTAL	2,017	2,154	2,544	2,641	2,613	2,508	2,686	2,620	2,429	1,923	2,074	1,750	1,760	1,637	1,500	1,502	1,387

Source: Hughes Tool Company

April 1977

Section III
Table 13

U.S. ANNUAL AVERAGE ROTARY RIG ACTIVITY BY STATE

STATE	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Alabama	2	2	3	6	7	8	15	13	12	14	17	13	13	13	11
Alaska	13	21	20	28	14	5	5	5	9	14	14	15	16	13	14
Arkansas	10	8	7	16	13	15	15	15	18	14	15	14	14	10	27
Arizona	1	3	1	2	0	1	0	2	1	0	1	1	0	0	1
California	79	83	87	78	52	46	46	51	72	80	89	90	94	96	120
Colorado	16	16	17	23	25	30	35	42	46	42	38	45	41	40	61
Florida	2	2	1	1	4	11	18	9	7	9	5	6	6	5	4
Georgia	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Idaho	0	0	0	0	0	0	0	1	0	0	1	1	3	2	3
Illinois	30	30	22	17	14	13	14	6	7	19	22	16	28	13	25
Indiana	5	3	2	1	1	1	1	0	1	2	0	3	4	0	0
Iowa	1	0	0	0	0	1	2	1	0	2	0	1	0	0	0
Kansas	56	41	35	38	30	29	24	28	44	57	51	67	76	86	120
Kentucky	13	9	5	2	1	2	2	1	2	1	1	2	3	0	0
Louisiana	256	235	233	230	204	194	215	205	203	228	231	292	338	347	427
Maryland	4	0	1	1	0	0	1	0	0	0	1	0	1	1	0
Michigan	9	10	10	10	11	12	17	20	24	28	24	24	24	25	31
Mississippi	34	33	36	40	43	39	37	29	29	25	32	41	44	40	58
Missouri	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Montana	24	22	34	31	17	17	20	19	24	27	28	27	30	33	49
Nebraska	8	5	5	10	6	5	6	5	7	9	8	9	10	9	14
Nevada	1	1	2	0	0	0	0	0	1	0	2	3	2	4	5
New Mexico	60	56	68	64	40	47	56	62	79	71	54	69	76	88	118
New York	1	1	1	0	0	1	0	1	7	8	9	7	7	9	7
North Dakota	12	11	13	12	9	9	7	10	12	17	19	24	39	56	83
Ohio	14	18	22	22	24	17	22	36	30	21	26	33	45	46	75
Oklahoma	141	101	106	120	98	90	90	115	146	177	186	233	258	247	397
Oregon	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Pennsylvania	10	7	5	7	9	9	8	11	14	10	10	15	25	29	29
Rhode Island	0	0	0	0	0	0	0	0	0	0	0	1	4	4	2
South Dakota	0	0	1	1	2	1	1	1	1	1	2	3	2	1	2
Tennessee	1	1	0	1	2	1	0	0	0	0	0	0	0	0	1
Texas	387	340	329	322	302	291	338	376	508	638	653	778	855	770	988
Utah	14	15	12	12	12	17	34	38	42	26	19	30	32	29	42
Virginia	0	0	0	0	1	1	0	1	2	3	0	1	1	1	1
Washington	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
West Virginia	19	15	16	18	16	17	17	20	16	10	12	17	27	30	38
Wyoming	48	44	75	81	71	45	61	70	107	107	86	120	137	147	156
TOTAL	1,273	1,134	1,169	1,194	1,028	976	1,107	1,195	1,471	1,660	1,656	2,001	2,255	2,176	2,910

Source: Hughes Tool Company

September 1981

Section III
Table 13a

UNITED STATES TOTAL WELLS DRILLED BY STATE

STATE/AREA	1967 Exploratory	1967 Development	1967 Sub Total	1967 Total[1]	1968 Exploratory	1968 Development	1968 Sub Total	1968 Total[1]
Alabama	28	10	38	38	18	14	32	32
Alaska	33	41	74	74	18	86	104	107
Offshore*	—	—	—	—	N.A.	N.A.	N.A.	N.A.
Arizona	14	10	24	24	6	4	10	10
Arkansas	87	320	407	409	111	211	322	322
California	352	2,182	2,534	2,668	353	2,366	2,719	2,888
Offshore*	12	73	85	101	28	304	322	367
Colorado	277	262	539	539	270	224	494	495
Florida	11	—	11	11	9	4	13	13
Georgia	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	328	861	1,189	1,339	253	789	1,042	1,226
Indiana	254	220	474	510	158	179	337	367
Iowa	1	—	1	25	—	—	—	22
Kansas	1,270	1,937	3,207	3,345	1,186	1,849	3,035	3,107
Kentucky	458	1,086	1,544	1,647	453	828	1,281	1,379
Louisiana	935	2,209	3,144	3,185	1,026	2,415	3,441	3,478
Offshore*	296	559	855	867	352	696	1,048	1,068
Maryland	—	—	—	—	—	—	—	—
Massachusetts	—	—	—	—	—	—	—	—
Michigan	173	191	364	365	174	196	370	380
Minnesota	—	—	—	—	—	—	—	1
Mississippi	347	368	715	722	382	297	679	688
Missouri	4	—	4	19	4	12	16	38
Montana	302	252	554	580	465	400	865	882
Nebraska	95	84	179	179	196	89	285	288
Nevada	7	2	9	9	—	—	—	—
New Jersey	—	—	—	—	—	—	—	—
New Mexico	166	925	1,091	1,118	154	743	897	925
New York	35	176	211	238	9	97	106	120
North Carolina	—	—	—	—	—	—	—	—
North Dakota	60	93	153	156	121	62	183	186
Ohio	75	1,186	1,261	1,267	79	1,084	1,163	1,165
Oklahoma	421	2,431	2,852	3,074	422	2,318	2,740	2,996
Oregon	1	—	1	1	—	—	—	—
Offshore*	1	—	1	1	—	—	—	—
Pennsylvania	59	564	623	683	62	733	795	897
South Dakota	4	—	4	4	4	—	4	4
Tennessee	47	—	47	47	25	1	26	26
Texas	2,508	6,628	9,136	9,576	2,207	5,407	7,614	8,743
Offshore*	61	41	102	102	40	13	53	53
Utah	67	75	142	144	41	58	99	99
Vermont	—	—	—	—	—	—	—	—
Virginia	—	—	—	—	—	—	—	—
Washington	3	—	3	3	2	—	2	2
Offshore*	1	—	1	1	—	—	—	—
West Virginia	36	738	774	777	87	646	733	735
Wyoming	420	505	925	1,042	584	608	1,192	1,293
N. Gulf of Mexico[2]	—	—	—	—	—	—	—	—
Total	**8,878**	**23,356**	**32,234**	**33,818**	**8,879**	**21,720**	**30,599**	**32,914**

*Included in state total.

[1] Includes service wells, stratigraphic and core tests.

[2] Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 14a

UNITED STATES TOTAL WELLS DRILLED BY STATE

STATE/AREA	1969 Exploratory	1969 Development	1969 Sub Total	1969 Total[1]	1970 Exploratory	1970 Development	1970 Sub Total	1970 Total[1]
Alabama	34	14	48	48	27	18	45	45
Alaska	12	51	63	67	60	52	112	115
Offshore*	2	44	46	50	1	18	19	21
Arizona	24	14	38	39	9	3	12	13
Arkansas	131	288	419	422	85	222	307	318
California	288	1,712	2,000	2,167	250	1,834	2,084	2,370
Offshore*	17	210	227	262	16	130	146	162
Colorado	538	276	814	820	476	234	710	710
Florida	8	5	13	13	10	15	25	25
Georgia	2	—	2	2	4	—	4	4
Idaho	—	—	—	—	—	—	—	—
Illinois	241	639	880	988	198	499	697	776
Indiana	178	189	367	407	144	143	287	302
Iowa	—	—	—	7	3	—	3	5
Kansas	1,058	1,919	2,977	3,105	833	1,588	2,421	2,465
Kentucky	256	696	952	1,030	228	581	809	885
Louisiana	865	2,272	3,137	3,174	671	2,277	2,946	2,985
Offshore*	147	678	825	835	140	698	838	851
Maryland	—	—	—	—	—	—	—	—
Massachusetts-Off	—	—	—	—	—	—	—	—
Michigan	164	168	332	348	155	128	283	286
Minnesota	—	—	—	—	—	—	—	—
Mississippi	373	342	715	716	235	321	556	577
Missouri	7	22	29	57	4	10	14	14
Montana	499	296	795	834	424	179	603	621
Nebraska	285	98	383	388	161	76	237	238
Nevada	14	2	16	16	10	—	10	18
New Jersey-Off	—	—	—	—	—	—	—	—
New Mexico	190	984	1,174	1,219	163	565	728	761
New York	6	128	134	166	11	88	99	110
North Carolina	—	—	—	—	—	—	—	—
North Dakota	178	74	252	252	109	58	167	168
Ohio	53	1,185	1,238	1,255	36	1,314	1,350	1,351
Oklahoma	546	2,567	3,113	3,395	458	2,227	2,685	2,901
Oregon	—	—	—	—	—	—	—	—
Offshore*	—	—	—	—	—	—	—	—
Pennsylvania	43	853	896	1,018	40	683	723	774
South Dakota	56	—	56	56	83	—	83	83
Tennessee	23	3	26	27	22	28	50	50
Texas	2,718	5,938	8,656	9,233	2,098	5,624	7,722	8,114
Offshore*	103	11	114	114	51	9	60	60
Utah	103	71	174	175	43	40	83	85
Vermont	1	—	1	1	—	—	—	—
Virginia	8	2	10	10	—	—	—	—
Washington	—	—	—	—	—	—	—	—
Offshore*	—	—	—	—	—	—	—	—
West Virginia	83	819	902	920	74	790	864	882
Wyoming	716	859	1,575	1,678	569	830	1,399	1,416
N. Gulf of Mexico[2]	—	—	—	—	—	—	—	—
Total	**9,701**	**22,486**	**32,187**	**34,053**	**7,693**	**20,427**	**28,120**	**29,467**

*Included in state total.

[1] Includes service wells, stratigraphic and core tests.

[2] Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

UNITED STATES TOTAL WELLS DRILLED BY STATE

STATE/AREA	1971				1972			
	Exploratory	Development	Sub Total	Total[1]	Exploratory	Development	Sub Total	Total[1]
Alabama	48	14	62	64	85	30	115	116
Alaska	5	27	32	32	13	13	26	31
Offshore*	—	1	1	1	—	4	4	7
Arizona	5	3	8	8	12	10	22	23
Arkansas	92	250	342	365	101	243	344	350
California	220	1,585	1,805	2,083	186	1,209	1,395	1,683
Offshore*	15	55	70	74	4	60	64	86
Colorado	563	374	937	939	512	493	1,005	1,008
Florida	13	8	21	22	42	67	109	113
Georgia	2	—	2	2	2	—	2	2
Idaho	—	—	—	—	—	—	—	—
Illinois	165	399	564	636	149	453	602	655
Indiana	114	101	215	232	131	138	269	285
Iowa	1	—	1	1	—	—	—	—
Kansas	741	1,608	2,349	2,413	764	1,634	2,398	2,458
Kentucky	202	559	761	810	220	536	756	822
Louisiana	802	2,133	2,935	2,983	736	2,329	3,065	3,093
Offshore*	267	534	801	823	207	598	805	812
Maryland	—	—	—	—	—	—	—	—
Massachusetts	—	—	—	—	—	—	—	—
Michigan	161	141	302	305	182	127	309	317
Minnesota	—	—	—	—	—	—	—	—
Mississippi	200	286	486	498	236	181	417	462
Missouri	6	7	13	13	3	—	3	6
Montana	303	124	427	457	447	306	753	773
Nebraska	107	80	187	189	198	94	292	292
Nevada	13	—	13	13	2	—	2	2
New Jersey	—	—	—	—	—	—	—	—
New Mexico	129	687	816	833	216	818	1,034	1,059
New York	10	90	100	129	14	116	130	145
North Carolina	12	—	12	12	—	—	—	—
North Dakota	97	62	159	162	65	34	99	99
Ohio	27	1,130	1,157	1,161	55	1,276	1,331	1,333
Oklahoma	415	1,840	2,255	2,490	416	1,884	2,300	2,519
Oregon	—	—	—	—	—	—	—	—
Offshore*	—	—	—	—	—	—	—	—
Pennsylvania	22	619	641	701	66	835	901	956
South Dakota	35	—	35	36	26	10	36	36
Tennessee	128	67	195	195	67	27	94	94
Texas	1,818	5,453	7,271	7,728	1,973	5,693	7,666	8,088
Offshore*	38	6	44	44	47	6	53	53
Utah	55	32	87	87	86	74	160	160
Vermont	—	—	—	—	—	—	—	—
Virginia	—	—	—	—	—	18	18	18
Washington	—	—	—	—	—	—	—	12
Offshore*	—	—	—	—	—	—	—	—
West Virginia	66	702	768	780	83	591	674	679
Wyoming	345	548	893	921	451	513	964	1,066
N. Gulf of Mexico[2]	—	—	—	—	—	—	—	—
Total	**6,922**	**18,929**	**25,851**	**27,300**	**7,539**	**19,752**	**27,291**	**28,755**

*Included in state total.

[1] Includes service wells, stratigraphic and core tests.

[2] Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 14c

UNITED STATES WELLS DRILLED BY STATE

STATE/AREA	1973 Exploratory	1973 Development	1973 Sub Total	1973 Total[1]	1974 Exploratory	1974 Development	1974 Sub Total	1974 Total[1]
Alabama	70	32	102	102	58	40	98	98
Alaska	14	20	34	35	12	26	38	38
Offshore*	3	6	9	10	—	11	11	11
Arizona	4	4	8	8	5	6	11	11
Arkansas	79	206	285	292	90	227	317	320
California	202	1,005	1,207	1,325	235	1,715	1,950	2,153
Offshore*	1	49	50	63	6	58	64	71
Colorado	442	398	840	840	338	498	836	843
Florida	37	30	67	67	30	15	45	48
Georgia	3	—	3	3	5	—	5	5
Idaho	6	—	6	6	2	—	2	2
Illinois	196	360	556	611	220	575	795	823
Indiana	139	100	239	259	168	208	376	390
Iowa	—	—	—	—	2	—	2	2
Kansas	739	1,314	2,053	2,114	847	1,843	2,690	2,825
Kentucky	164	467	631	661	184	474	658	697
Louisiana	712	2,192	2,904	2,940	646	2,124	2,770	2,830
Offshore*	208	690	898	914	151	510	661	680
Maryland	—	—	—	1	2	—	2	2
Massachusetts-Off	—	—	—	—	—	—	—	—
Michigan	176	102	278	281	258	144	402	414
Minnesota	—	—	—	—	—	—	—	—
Mississippi	207	143	350	361	292	150	442	450
Missouri	8	1	9	9	24	8	32	101
Montana	435	207	642	647	381	291	672	673
Nebraska	102	61	163	163	155	75	230	230
Nevada	—	—	—	—	2	—	2	2
New Jersey-Off	—	—	—	—	—	—	—	—
New Mexico	191	859	1,050	1,098	209	919	1,128	1,142
New York	21	127	148	161	49	243	292	348
North Carolina	—	—	—	—	11	—	11	11
North Dakota	72	50	122	124	74	53	127	128
Ohio	60	1,444	1,504	1,504	172	1,616	1,788	1,790
Oklahoma	352	1,929	2,281	2,403	396	2,661	3,057	3,189
Oregon	3	—	3	3	—	—	—	—
Offshore*	—	—	—	—	—	—	—	—
Pennsylvania	97	1,002	1,099	1,142	101	1,107	1,208	1,322
South Dakota	21	1	22	22	9	2	11	11
Tennessee	66	32	98	100	85	50	135	135
Texas	2,325	5,773	8,098	8,494	2,907	6,622	9,529	9,808
Offshore*	66	6	72	72	150	13	163	163
Utah	70	125	195	196	56	139	195	196
Vermont	—	—	—	—	—	—	—	—
Virginia	4	5	9	9	8	53	61	61
Washington	—	—	—	—	—	—	—	—
Offshore*	—	—	—	—	—	—	—	—
West Virginia	80	621	701	701	102	677	779	780
Wyoming	369	516	885	920	470	518	988	1,001
N. Gulf of Mexico[2]	—	—	—	—	14	—	14	14
Total	**7,466**	**19,126**	**26,592**	**27,602**	**8,619**	**23,079**	**31,698**	**32,893**

*Included in state total.

[1] Includes service wells, stratigraphic and core tests.

[2] Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 14d

UNITED STATES TOTAL WELLS DRILLED BY STATE

STATE/AREA	1975				1976			
	Exploratory	Development	Sub Total	Total[1]	Exploratory	Development	Sub Total	Total[1]
Alabama	65	45	110	110	69	64	133	133
Alaska	22	41	63	67	7	55	62	81
Offshore*	1	13	14	14	—	13	13	20
Arizona	2	—	2	3	—	—	—	—
Arkansas	78	243	321	329	76	354	430	440
California	205	1,999	2,204	2,615	233	1,965	2,198	2,540
Offshore*	6	62	68	73	2	26	28	28
Colorado	413	778	1,191	1,198	372	675	1,047	1,052
Florida	27	19	46	47	14	16	30	30
Georgia	3	—	3	3	4	—	4	4
Idaho	1	—	1	1	2	—	2	2
Illinois	254	702	956	1,041	247	1,066	1,313	1,527
Indiana	156	217	373	400	195	290	485	507
Iowa	—	—	—	—	—	—	—	—
Kansas	879	2,180	3,059	3,398	914	2,793	3,707	3,977
Kentucky	313	605	918	973	373	700	1,073	1,094
Louisiana	708	2,328	3,036	3,098	611	2,814	3,425	3,476
Offshore*	151	495	646	653	102	567	669	678
Maryland	1	—	1	1	—	2	2	2
Massachusetts-Off	—	—	—	—	—	—	—	1
Michigan	272	244	516	519	282	216	498	522
Minnesota	—	—	—	—	—	—	—	—
Mississippi	263	188	451	453	266	201	467	469
Missouri	16	6	22	92	8	15	23	45
Montana	379	531	910	913	321	351	672	674
Nebraska	202	136	338	345	188	134	322	323
Nevada	4	—	4	4	7	—	7	7
New Jersey-Off	—	—	—	—	—	—	—	1
New Mexico	170	1,043	1,213	1,247	172	811	983	1,006
New York	21	373	394	437	52	503	555	596
North Carolina	2	—	2	2	—	—	—	1
North Dakota	109	98	207	213	116	118	234	234
Ohio	121	1,099	1,220	1,223	171	1,748	1,919	1,919
Oklahoma	394	3,252	3,646	3,796	434	3,782	4,216	4,393
Oregon	—	—	—	—	—	—	—	—
Offshore*	—	—	—	—	—	—	—	—
Pennsylvania	109	1,290	1,399	1,496	71	1,191	1,262	1,311
South Dakota	22	2	24	28	27	5	32	32
Tennessee	143	60	203	203	165	50	215	215
Texas	3,203	8,883	12,086	12,483	3,269	9,141	12,410	12,740
Offshore*	162	10	172	174	147	79	226	226
Utah	66	128	194	196	39	82	121	126
Vermont	—	—	—	—	—	—	—	—
Virginia	8	28	36	36	3	8	11	11
Washington	—	—	—	—	3	—	3	3
Offshore*	—	—	—	—	—	—	—	—
West Virginia	91	700	791	794	99	809	908	956
Wyoming	461	802	1,263	1,301	395	571	966	975
N. Gulf of Mexico[2]	31	1	32	32	29	1	30	30
Total	**9,214**	**28,021**	**37,235**	**39,097**	**9,234**	**30,531**	**39,765**	**41,455**

*Included in state total.

[1] Includes service wells, stratigraphic and core tests.

[2] Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

Section III
Table 14e

UNITED STATES TOTAL WELLS DRILLED BY STATE

	1977				1978			
STATE/AREA	Exploratory	Development	Sub Total[1]	Total[2]	Exploratory	Development	Sub Total[1]	Total[2]
Alabama	44	88	132	133	63	105	168	169
Alaska	29	46	75	83	8	49	57	64
Offshore*	10	12	22	30	5	7	12	14
Arizona	—	—	—	—	4	3	7	7
Arkansas	86	399	485	495	95	347	442	450
Atlantic Coast	—	—	—	1	7	—	7	7
California	296	2,203	2,499	2,917	356	1,567	1,923	2,389
Offshore*	22	32	54	61	14	67	81	86
Colorado	383	822	1,205	1,211	463	733	1,196	1,224
Florida	12	13	25	29	16	13	29	29
Georgia	—	—	—	—	—	—	—	—
Idaho	1	—	1	1	6	—	6	6
Illinois	241	864	1,105	1,174	265	829	1,094	1,167
Indiana	277	339	616	624	267	400	667	683
Iowa	1	—	1	1	—	—	—	—
Kansas	980	2,824	3,804	3,933	1,107	3,128	4,235	4,322
Kentucky	365	640	1,005	1,039	351	573	924	961
Louisiana	645	2,710	3,355	3,398	662	2,396	3,058	3,084
Offshore*	137	634	771	781	119	553	672	683
Maryland	—	—	—	—	—	—	—	—
Massachusetts	—	—	—	—	—	—	—	—
Michigan	329	266	595	600	266	241	507	521
Minnesota	—	—	—	—	—	—	—	—
Mississippi	260	275	535	540	247	239	486	489
Missouri	9	4	13	54	7	25	32	49
Montana	319	440	759	761	308	363	671	673
Nebraska	232	180	412	424	221	160	381	384
Nevada	14	5	19	19	13	3	16	16
New Jersey	—	—	—	—	—	—	—	—
New Mexico	172	1,164	1,336	1,350	174	1,371	1,545	1,583
New York	50	393	443	538	47	364	411	482
North Carolina	—	—	—	—	—	—	—	—
North Dakota	106	118	224	225	163	164	327	327
Ohio	125	2,466	2,591	2,593	40	2,564	2,604	2,606
Oklahoma	473	4,466	4,939	4,976	502	5,320	4,822	5,859
Oregon	2	—	2	2	—	—	—	—
Offshore*	—	—	—	—	—	—	—	—
Pennsylvania	93	1,361	1,454	1,462	96	1,631	1,727	1,748
South Dakota	22	18	40	41	17	28	45	45
Tennessee	156	88	244	244	151	71	222	222
Texas	3,549	10,730	14,279	14,759	3,741	10,565	14,306	14,747
Offshore*	143	195	338	338	143	147	290	290
Utah	94	179	273	277	79	182	261	277
Vermont	—	—	—	—	—	—	—	—
Virginia	9	16	25	25	5	26	31	31
Washington	—	—	—	—	—	—	—	—
Offshore*	—	—	—	—	—	—	—	—
West Virginia	108	1,062	1,170	1,213	165	1,228	1,393	1,404
Wyoming	465	826	1,291	1,307	477	905	1,382	1,395
N. Gulf of Mexico[3]	14	16	30	30	7	13	20	20
Total	**9,961**	**35,021**	**44,982**	**46,479**	**10,677**	**36,380**	**47,057**	**48,513**

*Included in state total.

[1] Excludes service wells, stratigraphic and core tests.

[2] Includes service wells, stratigraphic and core tests.

[3] Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

UNITED STATES TOTAL WELLS DRILLED BY STATE

	1979				1980			
STATE/AREA	Exploratory	Development	Sub Total(1)	Total(3)	Exploratory	Development	Sub Total(1)	Total(2)
Alabama	97	117	214	214	80	109	189	189
Alaska	20	49	69	77	14	116	130	134
Offshore*	6	4	10	10	—	3	3	5
Arizona	2	6	8	8	4	—	4	4
Arkansas	105	394	499	505	111	496	607	612
Atlantic Coast(4)	18	—	18	18	4	—	4	4
California	363	1,457	1,820	2,150	410	1,829	2,239	2,659
Offshore*	7	87	94	120	7	72	79	107
Colorado	439	590	1,029	1,036	487	765	1,252	1,253
Florida	15	22	37	41	5	6	11	12
Idaho	2	—	2	2	6	—	6	6
Illinois	233	897	1,130	1,208	444	1,535	1,979	2,127
Indiana	186	305	491	500	324	404	728	746
Kansas	1,078	3,158	4,236	4,306	1,097	3,981	5,078	5,161
Kentucky	354	584	938	986	447	813	1,260	1,294
Louisiana	678	3,362	4,040	4,078	798	4,064	4,862	4,956
Offshore*	116	563	679	679	148	487	635	642
Maryland	—	—	—	9	—	—	—	—
Michigan	246	262	508	527	321	344	665	682
Minnesota	—	—	—	—	—	—	—	—
Mississippi	244	271	515	544	280	339	619	631
Missouri	15	50	65	81	15	8	23	31
Montana	298	451	749	750	374	501	875	882
Nebraska	258	191	449	453	293	242	535	538
Nevada	10	4	14	16	12	1	13	13
New Mexico	201	1,358	1,559	1,607	292	1,643	1,935	1,966
New York	51	366	417	428	20	458	478	494
North Carolina	—	—	—	—	—	—	—	—
North Dakota	144	220	364	364	242	343	585	586
Ohio	125	3,367	3,492	3,492	60	3,209	3,269	3,269
Oklahoma	484	5,863	6,347	6,362	508	8,533	9,041	9,073
Oregon	17	4	21	21	22	9	31	31
Offshore*	—	—	—	—	—	—	—	—
Pennsylvania	68	1,789	1,857	1,941	131	1,825	1,956	2,020
South Dakota	34	16	50	50	17	23	40	41
Tennessee	94	133	227	227	188	152	340	340
Texas	4,011	11,588	15,599	16,149	4,274	14,423	18,697	19,253
Offshore*	119	93	212	212	102	64	166	166
Utah	86	168	254	255	91	186	277	280
Virginia	4	21	25	25	1	13	14	14
Washington	—	—	—	—	—	—	—	—
Offshore*	—	—	—	—	—	—	—	—
West Virginia	108	1,332	1,440	1,474	112	1,565	1,677	1,717
Wyoming	379	930	1,309	1,335	412	977	1,389	1,407
N. Gulf of Mexico(3)	17	7	24	24	16	17	33	33
Alaska(4)	—	—	—	—	4	—	4	4
Total	**10,484**	**39,332**	**49,816**	**51,263**	**11,916**	**48,929**	**60,845**	**62,462**

* Included in state total.

(1) Excludes service stratigraphic and core test wells.

(2) Includes service stratigraphic and core test wells.

(3) Northern Gulf of Mexico was a new area designated in 1972 by the Bureau of Land Management for federally controlled Outer Continental Shelf Waters not previously mapped or leased.

(4) Alaska (offshore federal waters) and Atlantic Coast were mapped and released by the Bureau of Land Management as of January 1, 1979.

Source: American Petroleum Institute and the American Association of Petroleum Geologists.

U.S. ROTARY RIG CENSUS

Year	Number of Rigs	Contractor Owned	Oil Company Owned	Stacked	Active	Percent Rigs Active	DRILLING DEPTH CAPABILITIES (Thousand Feet)					Total Land Rigs	Drilling Barges	Offshore Rigs
							0-5	6-9	10-12	13-15	16-Over			
1967[1]	2,408	2,359	49	835	1,573	65.3	623	776	435	199	375	2,114	121	173
1968	2,111	2,067	44	603	1,508	71.4	493	680	381	185	372	1,825	114	172
1969	2,060	2,033	27	411	1,649	80.0	528	626	352	188	366	1,827	98	135
1970	1,898	1,869	29	567	1,331	70.1	434	580	322	219	343	1,662	106	130
1971	1,859	1,832	27	551	1,308	70.4	436	535	329	198	361	1,592	124	143
1972	1,768	1,741	27	387	1,381	78.1	409	490	301	171	397	1,551	77	140
1973	1,767	1,739	28	294	1,473	83.4	355	517	318	164	413	1,570	71	126
1974	1,894	1,881	13	125	1,769	93.4	387	529	339	214	425	1,715	66	113
1975	2,028	2,014	14	151	1,877	92.6	396	579	380	225	448	1,839	74	115
1976	2,204	2,180	24	225	1,979	89.8	468	633	366	239	498	1,964	76	164
1977	2,482	2,451	31	83	2,399	96.7	542	628	461	274	577	2,186	77	219
1978	2,851	2,818	33	66	2,785	97.7	557	723	565	313	693	2,524	91	236
1979	3,182	3,144	38	308	2,874	90.3	546	783	631	350	872	2,802	109	271
1980	3,672	3,626	46	130	3,542	96.5	605	885	704	419	1,059	3,255	115	302
1981	4,803	4,762	41	100	4,703	97.9	773	1,080	950	595	1,405	4,316	161	326

---

[1] Data for prior years not available on a comparable basis

Source: Reed Tool Company, Annual Rotary Rig Census (taken in August of each year)

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES BY STATE
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	—	—	—	—	—	—	—	—	—	—	—	—	4	4
Alaska	—	—	—	—	—	—	—	—	—	—	—	—	2	2
Arizona	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Arkansas	160	165	168	179	190	200	230	240	240	255	260	300	320	370
California	350	365	395	440	360	380	420	460	470	465	500	535	569	652
Colorado	20	30	30	36	35	40	55	75	100	150	240	250	318	466
Florida	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Illinois	100	100	100	90	50	40	25	25	30	40	40	35	35	45
Indiana	830	800	750	750	650	600	450	425	400	405	410	380	350	350
Kansas	2,700	3,000	3,300	3,700	4,000	4,270	4,600	4,800	5,100	5,450	5,650	6,000	5,700	6,003
Kentucky	3,350	3,480	3,610	3,500	3,570	3,800	3,900	4,000	4,100	4,200	4,300	4,330	4,690	4,829
Louisiana	2,100	2,210	2,400	2,550	2,690	2,900	3,200	3,500	3,600	4,000	4,300	4,500	5,000	6,479
Maryland	—	—	—	—	—	—	—	—	—	—	—	—	38	38
Michigan	760	700	650	550	400	380	280	250	260	260	270	270	230	154
Mississippi	60	75	75	140	190	220	220	235	230	235	238	250	300	400
Missouri	100	100	90	59	30	20	27	37	32	33	38	40	—	9
Montana	700	760	800	820	830	920	1,000	1,050	1,060	1,065	1,090	1,090	1,176	999
Nebraska	—	—	—	—	—	—	—	—	—	—	—	—	50	53
New Mexico	220	230	270	360	570	920	1,500	1,800	2,200	2,830	3,300	4,000	5,000	6,047
New York	1 700	1,600	1,400	1,400	1,380	1,360	1,300	1,250	1,180	1,160	1,150	980	920	1,000
North Dakota	—	—	—	—	—	—	—	—	—	—	—	—	28	28
Ohio	7,190	7,000	6,700	6,800	6,300	6,000	6,100	6,100	6,200	6,300	6,450	6,300	6,700	7,063
Oklahoma	3,250	3,400	3,500	3,600	3,600	3,700	3,900	4,000	4,200	4,300	4,450	5,000	5,300	5,800
Pennsylvania	19,100	18,800	18,400	18,500	17,700	16,700	16,700	16,500	16,300	16,250	16,300	16,300	16,500	16,350
South Dakota	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tennessee[2]/	—	18	18	18	20	20	27	28	28	28	30	30	25	30
Texas	5,000	5,100	5,800	7,300	8,300	9,200	10,200	11,200	11,400	12,240	13,400	15,340	16,750	18,612
Utah	—	—	—	—	—	—	—	—	—	—	—	—	37	35
Virginia	—	—	—	—	—	—	—	—	—	—	—	—	53	92
West Virginia	15,800	16,100	15,500	13,900	14,000	13,500	13,800	13,900	14,000	14,200	14,200	14,000	12,740	14,500
Wyoming	150	145	150	165	165	180	180	200	220	265	280	300	390	350
Other	30	34	40	43	70	100	109	117	125	130	145	170	—	—
Total	**63,670**	**64,212**	**64,146**	**64,900**	**65,100**	**65,450**	**68,233**	**70,192**	**71,475**	**74,261**	**77,041**	**80,400**	**83,225**	**90,761**

---

[1]/ Prior to 1959 included with Missouri

[2]/ Prior to 1948 included with Kentucky

Source: U.S. Bureau of Mines, Natural Gas Annuals

April 1976

Section III
Table 16

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES, BY STATE
(As of December 31)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972r/	1973r/	1974r/
Alabama	—	—	2	—	—	—	—	1	1	2	—	15	15	6
Alaska	5	8	10	13	11	19	21	18	44	51	40	50	52	52
Arizona	—	3	7	10	8	9	7	4	4	4	5	4	4	1
Arkansas	485	480	490	515	744	818	909	947	998	1,008	1,013	1,041	876	1,172
California	774	826	879	950	1,033	1,068	1,059	994	897	980	962	1,086	1,095	1,142
Colorado	462	451	501	560	701	826	827	810	805	861	928	934	1,050	1,347
Florida	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Illinois	74	30	25	25	25	3	3	5	5	8	14	31	36	37
Indiana	300	290	285	280	275	275	271	265	263	50	83	87	106	474
Kansas	6,633	6,915	7,050	7,174	7,200	[illegible]	8,603	8,509	8,567	8,660	8,585	8,621	8,785	8,800
Kentucky	5,119	5,200	5,210	5,320	6,100	6,020	6,215	6,290	6,413	6,913	7,413	7,099	7,224	7,307
Louisiana	6,990	7,442	7,859	8,260	8,563	8,977	9,036	9,163	9,354	9,690	9,748	9,456	10,551	9,248
Maryland	34	33	33	16	20	8	13	15	13	16	14	16	15	15
Michigan	155	174	175	195	226	250	244	199	211	1,235	1,171	1,317	1,145	503
Mississippi	472	490	450	435	370	376	360	347	322	325	400	252	250	239
Missouri	9	6	6	6	11	11	11	11	11	11	2	3	2	3
Montana	981	954	905	869	784	784	648	1,196	1,098	739	1,056	1,116	1,118	1,450
Nebraska	49	47	44	41	39	37	37	36	35	35	29	29	29	25
New Mexico	6,491	6,967	7,150	7,306	8,010	8,017	8,274	8,754	9,100	8,848	9,388	9,679	9,711	9,915
New York	1,109	1,130	1,130	1,155	1,150	1,164	1,159	1,155	818	600	600	650	789	700
North Dakota	28	29	31	31	31	31	31	19	33	29	29	21	44	34
Ohio	7,077	7,117	7,128	7,160	7,100	3,790	3,865	7,211	7,334	7,769	8,179	8,630	9,406	10,038
Oklahoma	6,218	6,324	6,639	6,813	7,447	7,841	7,726	8,337	8,432	8,168	8,507	8,457	8,868	9,401
Pennsylvania	16,500	16,600	16,600	14,120	17,516	17,808	17,700	17,000	16,600	16,239	16,586	16,600	16,600	17,123
South Dakota	—	—	—	—	—	—	—	—	—	—	—	5	10	20
Tennessee	23	30	30	30	20	20	21	23	26	15	20	45	6	13
Texas	19,831	20,834	22,016	22,995	23,748	23,907	23,760	23,805	23,689	23,417	23,280	23,373	23,805	24,646
Utah	135	121	135	135	148	156	168	165	171	173	178	200	158	114
Virginia	98	98	98	100	99	104	104	111	111	115	115	130	178	174
West Virginia	16,297	17,121	17,500	17,960	19,600	20,830	20,500	18,214	18,600	20,702	21,025	21,324	21,400	21,450
Wyoming	460	547	578	610	701	741	749	787	521	800	840	887	850	900
Total	**96,809**	**100,267**	**102,966**	**103,084**	**111,680**	**112,498**	**112,321**	**114,391**	**114,476**	**117,483**	**120,210**	**121,158**	**124,178**	**126,349**

r/ Revised
p/ Preliminary

Source: U.S. Bureau of Mines, Natural Gas Annuals

November 1976

PRODUCING NATURAL GAS AND CONDENSATE WELLS IN THE UNITED STATES, BY STATE
(As of December 31)

STATE	1975	1976	1977	1978	1979
Alabama	45	66	69	189	250
Alaska	61	50	50	52	58
Arizona	1	1	1	1	1
Arkansas	1,128	1,223	1,253	1,335	1,402
California	1,585	1,123	1,050	1,131	1,117
Colorado	1,380	1,500	2,053	2,318	2,574
Florida	—	—	—	—	—
Illinois	41	34	34	51	51
Indiana	478	563	596	641	655
Kansas	8,865	9,330	9,375	9,450	10,544
Kentucky	7,386	7,505	7,649	7,776	7,883
Louisiana	11,359	11,370	12,484	13,333	14,464
Maryland	15	14	12	12	12
Michigan	209	214	212	376	376
Mississippi	248	257	365	402	433
Missouri	3	3	7	7	0
Montana	1,235	1,490	1,438	1,755	1,881
Nebraska	19	17	18	22	20
New Mexico	10,352	10,674	11,812	12,609	13,598
New York	900	1,400	1,600	1,900	2,200
North Dakota	18	34	34	23	78
Ohio	10,382	11,509	13,032	14,197	15,827
Oklahoma	9,769	10,436	11,570	12,861	14,417
Oregon	0	0	0	0	5
Pennsylvania	17,300	17,500	17,396	18,900	19,600
South Dakota	20	20	20	20	10
Tennessee	5	7	49	75	184
Texas	26,184	27,762	31,512	33,157	35,650
Utah	271	71	535	171	182
Virginia	186	180	202	227	258
West Virginia	21,700	22,100	22,600	23,575	24,725
Wyoming	950	990	995	888	1,236
Total	**132,095**	**137,443**	**148,018**	**157,454**	**169,891**

Source: U.S. Energy Information Administration, Natural Gas Annuals

May 1981

PRODUCING OIL WELLS IN THE UNITED STATES, BY STATE
(As of December 31)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	221	281	344	380
Alaska	—	—	—	—	—	—	—	—	—	—	—	2	5	17
Arizona	—	—	—	—	—	—	—	—	—	—	—	1	2	3
Arkansas	3,590	3,670	3,660	3,700	3,800	3,930	4,190	4,410	4,610	5,225	5,680	5,715	6,155	6,381
California	24,420	26,460	24,350	28,080	29,630	30,900	31,920	32,860	34,760	35,990	37,020	36,285	36,915	37,771
Colorado	600	700	750	770	840	1,000	1,220	1,750	1,940	2,150	2,185	2,195	2,089	2,021
Flordia	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	11	11	11	11
Illinois	25,670	26,500	27,100	27,500	27,420	27,460	29,520	30,280	29,600	31,400	31,585	31,775	31,826	31,995
Indiana	2,300	2,780	2,950	3,410	3,600	3,840	4,020	4,160	4,080	4,405	4,515	4,865	5,050	5,176
Kansas	27,500	27,900	29,600	31,000	32,460	33,620	35,420	37,755	36,177	37,570	38,330	37,880	40,175	40,460
Kentucky	14,780	14,750	15,500	15,650	16,900	16,950	16,600	16,900	17,800	18,660	18,260	18,965	21,165	20,571
Louisiana	8,700	9,770	10,890	11,860	12,490	13,290	14,220	15,980	18,800	20,905	21,945	23,070	23,468	24,682
Michigan	3,540	3,550	3,820	3,950	3,800	3,980	4,000	4,173	4,034	4,191	3,995	3,895	4,130	4,348
Mississippi	1,120	1,320	1,400	1,670	1,760	1,870	1,950	2,173	2,339	2,374	2,313	2,240	2,403	3,086
Missouri	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	107	127	121	120
Montana	2,890	3,100	3,180	3,300	3,380	3,510	3,410	3,415	3,414	3,584	3,792	3,916	3,888	3,707
Nebraska	60	50	60	140	260	300	350	550	790	825	1,030	1,190	1,461	1,571
Nevada	—	—	—	—	—	—	[1]/	—	—	—	2	2	2	2
New Mexico	5,000	5,370	5,580	6,020	6,350	6,790	7,320	7,760	8,640	9,415	10,820	12,045	12,740	14,286
New York	22,500	23,100	23,000	23,200	23,200	22,950	22,730	22,390	20,100	19,670	19,695	19,530	19,230	18,579
North Dakota	—	—	—	[1]/	[1]/	83	257	460	570	789	920	1,150	1,390	1,451
Ohio	19,500	20,000	19,900	18,580	17,650	17,600	15,670	14,110	14,195	14,385	14,490	15,200	16,934	16,743
Oklahoma	52,200	53,000	54,400	56,800	57,600	60,320	63,400	65,390	69,930	70,075	74,425	75,210	75,630	77,720
Pennsylvania	83,600	82,000	82,100	81,190	78,800	80,600	79,430	73,700	72,525	71,080	69,610	68,485	68,450	66,260
South Dakota	—	—	—	—	—	—	[1]/	[1]/	[1]/	[1]/	3	4	14	19
Tennessee	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	35	35	34	27
Texas	107,600	113,100	119,900	128,500	134,670	139,530	143,990	153,190	159,880	178,095	187,935	189,960	188,934	192,934
Utah	—	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	225	519	697	796
Virginia	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	[1]/	4	6	7	5
West Virginia	16,250	16,000	15,400	15,000	14,500	13,900	13,460	12,900	12,500	12,770	12,715	12,815	12,780	12,560
Wyoming	4,320	4,600	4,950	5,320	5,610	5,800	5,530	6,530	6,960	7,190	7,405	7,530	7,090	7,475
Other	140	160	190	230	270	297	333	364	366	422	—	1[2]/	1[2]/	1[2]/
Total	**426,280**	**437,880**	**448,680**	**465,870**	**474,990**	**488,520**	**498,940**	**511,200**	**524,010**	**551,170**	**569,273**	**574,905**	**583,141**	**591,158**

[1]/ Included in Other

[2]/ Washington

Source: U.S. Bureau of Mines, Petroleum Statement, Annuals

April 1976

Section III
Table 17

PRODUCING OIL WELLS IN THE UNITED STATES, BY STATE
(As of December 31)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	418	449	502	519	518	524	532	546	550	562	556	544	586	582	608	633
Alaska	45	52	54	56	57	72	94	163	183	202	173	193	192	199	205	181
Arizona	5	4	9	8	10	6	20	22	29	28	30	28	28	25	28	27
Arkansas	6,330	5,918	6,010	6,018	6,014	6,372	6,459	6,445	6,118	7,082	7,110	7,157	7,232	7,235	7,308	7,529
California	38,184	39,265	40,233	40,916	41,031	41,348	41,608	41,360	40,997	40,437	39,668	39,254	38,626	40,479	41,029	42,534
Colorado	2,023	2,110	2,030	1,981	1.938	2,371	1,730	1,825	1,811	1,770	1.785	1,897	2,004	2,174	2,450	2,827
Florida	11	11	12	19	38	42	41	44	45	60	78	142	147	136	143	143
Illinois	31,911	30,174	30,149	29,500	29,017	28,608	27,887	27,236	26,733	26,134	25,361	24,716	24,309	23,630	23,373	23,527
Indiana	5,679	5,607	5,951	5,381	5,275	5,300	4,831	4,330	4,094	4,055	3,605	4,379	4,323	4,376	4,798	4,891
Kansas	40,933	46,750	46,951	46,715	47,354	46,016	47,597	45,145	44,665	43,490	42,180	41,055	41,520	41,755	41,945	42,240
Kentucky	19,857	19,448	14,903	15,226	15,600	14,800	13,255	12,311	11,843	11,659	14,657	14,616	14,416	14,127	13,905	13,970
Louisiana	24,740	26,382	27,638	29,452	30,179	31,063	30,670	30,266	29,393	27,934	26,829	27,762	27,869	27,973	27,734	26,274
Michigan	4,301	4,282	4,234	4,151	4,036	4,141	4,004	4,273	3,878	4,311	4,046	3,685	3,733	4,201	3,655	3,770
Mississippi	2,819	2,560	2,682	2,580	2,513	2,549	2,557	2,599	2,548	3,102	3,109	3,195	2,901	2,254	2,237	2,212
Missouri	116	105	105	100	142	150	146	128	164	126	139	137	135	157	163	173
Montana	3,342	3,692	3,642	3,329	3,799	3,507	3,390	3,385	3,331	3,243	3,145	3,544	3,471	3,103	3,247	3,309
Nebraska	1,860	1,764	1,726	1,711	1,611	1,511	1,430	1,403	1,305	1,244	1,191	1,143	1,107	1,127	1,190	1,291
Nevada	4	4	4	5	9	10	13	13	11	9	6	6	6	9	6	12
New Mexico	15,295	16,102	16,796	17,570	18,000	16,504	16,745	16,903	17,088	17,314	17,210	17,287	17,099	13,304	13,715	13,939
New York	17,829	13,537	13,431	12,526	12,304	11,832	4,712	4,201	5.263	5,861	5,860	5,427	5,200	5,475	4,975	5,100
North Dakota	1,683	1,794	1,824	1,881	1,983	2,017	2,063	2,075	1,987	1,457	1,466	1,401	1,404	1,488	1,994	1,568
Ohio	16,682	16,867	14,605	13,752	13,947	14,192	14,638	15,480	15,737	15,850	14,771	15,222	15,236	16,658	16,611	16,761
Oklahoma	79,387	80,799	81,475	80,511	80,947	80,583	80,970	81,052	80,952	78,019	75,572	73,745	72,880	71,797	71,576	72,543
Pennsylvania	63,576	59,673	54,062	53,065	52,731	50,645	45,426	42,500	37,625	36,801	34,029	32,596	31,539	32,095	32,095	28,805
South Dakota	19	19	24	24	28	29	28	27	26	26	33	29	27	31	38	43
Tennessee	30	40	39	38	33	32	33	32	35	59	78	73	67	154	172	215
Texas	196,396	197,659	198,070	199,119	197,924	196,308	192,001	187,922	183,141	177,221	172,696	167,233	159,090	159,702	160,603	160,546
Utah	795	852	835	840	841	867	869	875	843	889	870	890	989	1,076	1,323	1,188
Virginia	5	5	6	8	6	2	4	5	5	5	1	1	—	3	7	7
West Virginia	12,762	12,880	13,044	13,205	13,225	13,467	12,989	13,049	12,849	12,750	12,112	12,136	13,600	13,650	13,750	13,800
Wyoming	7,880	7,581	7,611	8,019	8,093	8,434	8,547	8,305	8,978	9,280	8,952	8,950	7,642	8,656	9,450	9,052
Other	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	**594,917**	**596,385**	**588,657**	**588,225**	**589,203**	**583,302**	**565,289**	**553,920**	**542,227**	**530,990**	**517,318**	**508,443**	**497,378**	**497,631**	**500,333**	**499,110**

Source: U.S. Bureau of Mines, Annual Petroleum Statements

PRODUCING OIL WELLS IN THE UNITED STATES, BY STATE
(As of December 31)

STATE	1977	1978	1979(r)	1980(p)
Alabama	631	648	660	669
Alaska	298	348	396	642
Arizona	29	34	35	32
Arkansas	7,756	7,866	8,115	8,104
California	43,525	43,375	43,838	45,591
Colorado	3,027	3,260	3,450	3,490
Florida	140	111	115	120
Illinois	23,752	23,900	24,067	24,745
Indiana	5,076	5,296	5,452	5,452
Kansas	42,450	42,900	43,200	47,457
Kentucky	14,046	14,097	14,172	14,517
Louisiana	23,881	24,500	24,767	26,014
Michigan	3,903	3,890	3,890	4,109
Mississippi	2,806	2,956	3,263	2,631
Missouri	175	167	251	258
Montana	3,330	3,400	3,661	3,628
Nebraska	1,382	1,469	1,551	1,679
Nevada	18	16	20	24
New Mexico	14,338	17,453	21,526	15,746
New York	4,800	5,039	5,100	5,000
North Dakota	1,608	2,305	2,624	2,290
Ohio	17,338	18,289	19,596	20,451
Oklahoma	73,752	75,308	76,505	78,413
Pennsylvania	28,400	27,768	27,925	27,925
South Dakota	69	85	94	118
Tennessee	283	311	351	441
Texas	163,746	166,365	169,826	174,511
Utah	1,448	1,291	1,560	1,478
Virginia	4	5	7	7
West Virginia	13,900	14,100	14,250	14,425
Wyoming	11,123	10,200	11,128	10,227
Total	**507,034**	**516,752**	**531,395**	**543,510(1)**

(r) Revised

(p) Preliminary

(1) Total includes 3,266 wells in U.S. offshore federal waters

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1980-World Oil, Forecast-Review issue, February 15, 1980

May 1981

PRODUCING OIL AND GAS WELLS IN FREE WORLD (AS OF JULY 1)

COUNTRY	1970	1971	1972	1973	1974	1975
Australia	386	402	398	394	373	361
Brunei-Malaysia	592	537	558	126	519	504
India	200	1,545	1,545	1,500	2,500	1,545
Indonesia	2,136	2,055	2,344	2,567	2,710	3,018
Japan	1,725	2,341	1,078	1,084	1,044	1,009
TOTAL ASIA-PACIFIC	5,200	7,046	6,692	6,479	6,861	7,156
Austria	1,268	1,298	1,270	1,250	1,271	1,291
Netherlands	369	351	319	319	347	368
Norway	—	1	4	4	6	24
United Kingdom	60	55	56	63	57	77
West Germany	3,065	3,078	2,833	2,782	2,699	2,699
TOTAL WESTERN EUROPE	5,243	5,217	4,807	5,869	5,916	5,981
Abu Dhabi	94	98	115	142	160	216
Iran	266	280	313	350	369	425
Iraq	113	122	132	133	156	156
Kuwait	741	692	692	692	692	692
Neutral Zone	450	480	440	362	449	449
Qatar	69	80	84	92	81	88
Saudi Arabia	423	425	535	627	670	711
TOTAL MIDDLE EAST	2,862	2,922	3,108	3,187	3,358	3,919
Algeria	775	497	524	574	826	984
Egypt	332	204	245	261	437	319
Gabon	100	101	114	122	137	184
Libya	1,083	995	763	895	979	851
Nigeria	364	570	774	898	1,088	1,052
TOTAL AFRICA	2,898	2,592	2,672	3,016	3,777	3,699
Mexico	3,127	3,908	3,412	4,345	3,301	3,285
Venezuela	9,364	9,360	11,245	12,461	12,450	10,718
United States	640,760	517,177	525,885	503,505	504,000	494,352
Canada	23,675	22,779	20,911	22,996	21,202	18,573
TOTAL WESTERN HEMISPHERE	692,419	569,031	576,389	557,670	555,263	540,885
TOTAL FREE WORLD	708,662	586,808	593,668	576,221	575,175	561,640

Source: Oil and Gas Journal, Worldwide Report Iss

PRODUCING OIL AND GAS WELLS IN FREE WORLD
(AS OF JULY 1)

COUNTRY	1976	1977	1978	1979	1980
Australia	378	359	375	370	403
Brunei-Malaysia	574	648	712	819	808
India	1,548	1,600	1,600	1,600	1,600
Indonesia	3,162	3,421	3,644	3,823	3,700
Japan	464	448	542	507	388
TOTAL ASIA-PACIFIC	6,645	7,006	7,407	7,684	7,465
Austria	1,222	1,219	1,250	1,254	1,120
Netherlands	392	393	416	473	480
Norway	29	36	50	50	100
United Kingdom	90	135	109	240	290
West Germany	2,827	2,933	2,933	2,945	2,957
TOTAL WESTERN EUROPE	6,109	6,266	5,208	5,421	5,401
Abu Dhabi	209	232	240	250	341
Iran	428	518	551	547	547
Iraq	170	200	250	250	250
Kuwait	596	586	586	590	590
Neutral Zone	476	459	455	423	412
Qatar	77	77	95	95	124
Saudi Arabia	701	754	875	725	733
TOTAL MIDDLE EAST	3,007	4,161	4,307	4,381	4,193
Algeria	826	801	989	970	1,000
Egypt	376	401	430	432	484
Gabon	212	240	211	218	242
Libya	877	797	817	896	886
Nigeria	1,259	1,374	1,322	1,457	1,451
TOTAL AFRICA	3,804	3,956	4,160	4,372	4,522
Mexico	3,382	3,419	4,145	4,200	3,384
Venezuela	10,720	1,932	11,909	12,486	5,042
United States	507,935	508,561	508,340	508,000	526,855
Canada	25,055	26,112	25,800	18,323	20,721
TOTAL WESTERN HEMISPHERE	583,049	556,561	567,283	560,353	573,879
TOTAL FREE WORLD	602,614	577,950	588,365	582,211	595,460

Source: Oil and Gas Journal, Worldwide Report Issue.

SECTION IV. PRODUCTION

Table 1. World Crude Oil Production by Area

Table 2. World Crude Oil Production by Area

Table 3. World Crude Oil Production — Twenty Leading Nations

Table 4. U.S. Stripper Wells and Stripper Well Production

Table 5. U.S. Crude Oil Production by State

Table 6. U.S. Crude Oil Production Per Well Per Day by State

BEST AVAILABLE COPY

WORLD CRUDE OIL PRODUCTION BY AREAS
(Thousands of barrels)

Year	United States 1/	Canada	Latin America	Western Europe	Middle East	Africa	Asia	Total Free World	Communist Nations	Total World	U.S. as a Percent of Free World Total	U.S. as a Percent of World Total	Year
1947	1,856,987	7,692	574,170	12,873	306,320	8,649	24,568	2,791,259	230,880	3,022,139	66.5%	61.4%	1947
1948	2,020,185	12,287	633,568	13,114	416,780	13,499	55,878	3,165,311	267,923	3,433,234	63.8	58.8	1948
1949	1,841,940	21,305	634,560	17,651	511,507	16,135	74,518	3,117,616	286,526	3,404,142	59.1	54.1	1949
1950	1,973,574	29,044	716,655	25,310	640,862	16,702	86,883	3,489,030	313,997	3,803,027	56.6	51.9	1950
1951	2,247,711	47,615	804,154	33,696	700,643	16,947	101,218	3,951,984	330,746	4,282,730	56.9	52.5	1951
1952	2,289,836	61,237	843,522	40,533	760,599	17,561	108,981	4,122,269	408,845	4,531,114	55.5	50.5	1952
1953	2,357,082	80,899	828,792	47,922	884,736	17,900	121,377	4,338,708	459,347	4,798,055	54.3	49.1	1953
1954	2,314,988	96,080	893,403	55,101	998,932	15,225	127,637	4,501,366	515,225	5,016,591	51.4	46.1	1954
1955	2,484,428	129,440	1,000,431	64,625	1,185,519	13,837	138,682	5,016,962	608,697	5,625,659	49.5	44.2	1955
1956	2,617,283	171,981	1,127,925	72,556	1,260,610	13,224	145,824	5,409,403	715,273	6,124,676	48.4	42.7	1956
1957	2,616,901	181,848	1,257,309	83,429	1,293,099	18,102	166,631	5,617,319	821,125	6,438,444	46.6	40.6	1957
1958	2,449,016	165,496	1,214,520	87,345	1,558,351	31,713	169,824	5,676,265	931,485	6,607,750	43.1	37.1	1958
1959	2,574,590	184,778	1,300,922	94,248	1,684,636	41,943	193,308	6,074,425	1,058,813	7,133,238	42.4	36.1	1959
1960	2,574,933	189,534	1,365,594	105,494	1,923,285	105,308	202,312	6,466,460	1,208,000	7,674,460	39.8	33.6	1960
1961	2,621,758	220,861	1,425,418	114,777	2,055,933	178,613	201,992	6,819,352	1,366,861	8,186,213	38.4	32.0	1961
1962	2,676,189	244,136	1,550,492	122,104	2,257,951	293,384	218,028	7,362,284	1,519,574	8,881,858	36.3	30.1	1962
1963	2,752,723	257,662	1,583,086	130,085	2,486,348	434,311	221,610	7,865,825	1,672,521	9,538,346	35.0	28.9	1963
1964	2,786,822	275,364	1,644,429	142,517	2,786,199	623,586	228,802	8,487,719	1,821,925	10,309,644	32.8	27.0	1964
1965	2,848,514	296,997	1,681,936	146,199	3,053,941	811,692	245,755	9,085,034	1,977,481	11,062,515	31.4	25.7	1965
1966	3,027,763	320,467	1,670,315	143,921	3,408,361	1,029,674	256,221	9,856,722	2,165,064	12,021,786	30.7	25.2	1966
1967	3,215,742	351,287	1,783,731	142,864	3,667,393	1,137,566	288,195	10,586,778	2,327,562	12,914,340	30.4	24.9	1967
1968	3,329,042	435,906	1,835,054	141,073	4,135,044	1,460,968	338,381	11,675,468	2,470,850	14,146,318	28.5	23.5	1968
1969	3,371,751	410,814	1,865,248	139,369	4,542,994	1,850,355	403,080	12,583,611	2,638,900	15,222,511	26.8	22.1	1969
1970	3,517,450	461,177	1,916,188	136,626	5,094,380	2,215,237	502,812	13,843,870	2,874,838	16,718,708	25.4	21.0	1970
1971	3,453,914	491,846	1,866,791	131,862	5,979,115	2,060,359	580,114	14,564,001	3,098,792	17,662,793	23.7	19.6	1971
1972	3,455,368	560,693	1,787,957	138,479	6,630,500	2,085,873	690,986	15,349,856	3,250,889	18,600,745	22.5	18.6	1972
1973	3,360,903	648,348	1,894,715	138,513	7,744,933	2,161,473	815,845	16,764,730	3,603,251	20,367,981	20.0	16.5	1973
1974 r/	3,202,585	616,532	1,788,690	142,005	7,986,831	1,989,898	816,030	16,542,571	3,995,156	20,537,727	19.4	15.6	1974 r/

---

r/ Revised

1/ Includes lease condensate

Source: U.S. Department of the Interior, Bureau of Mines — 1947-1958: Minerals Yearbook, Annual
1959-1972: International Petroleum Annual
1973-1974: World Crude Oil Production Annual 1974, July 17,1975

WORLD CRUDE OIL PRODUCTION BY AREA
(Thousands of barrels)

Year	United States(1)	Canada	Latin America	Western Europe	Middle East	Africa	Asia-Pacific	Total Free World	Communist Nations	Total World	U.S. as a Percent of Free World Total	U.S. as a Percent of World Total	Year
1975	3,056,779	520,666	1,603,333	199,950	7,160,993	1,826,255	806,329	15,174,305	4,328,030	19,502,335	20.1%	15.7%	1975
1976	2,976,180	488,680	1,625,069	311,858	8,115,708	2,134,861	922,818	16,575,174	4,616,366	21,191,540	18.0	14.0	1976
1977	3,009,265	482,021	1,647,362	489,328	8,186,851	2,276,007	1,017,244	17,108,078	4,792,617	21,900,695	17.6	13.7	1977
1978	3,175,927	483,260	1,736,427	643,149	7,884,927	2,233,791	1,037,520	17,195,001	4,963,250	22,158,251	18.5	14.3	1978
1979(r)	3,114,545	546,040	1,917,710	828,550	7,867,940	2,417,395	1,028,935	17,721,115	5,118,030	22,839,145	17.6	13.6	1979(r)
1980(p)	3,149,064	518,256	2,045,940	893,406	6,735,132	2,213,568	999,912	16,555,278	5,214,768	21,770,046	19.0	14.5	1980(p)

(r) Revised
(p) Preliminary
(1) Includes lease condensate

Source: U.S. Energy Information Administration, World Crude Oil Production Annual.
1979-1980: Central Intelligence Agency, International Energy Statistical Review.

WORLD CRUDE OIL PRODUCTION BY AREAS
(Thousands of barrels per day)

Year	United States[1]	Canada	Latin America	Western Europe	Middle East	Africa	Asia	Total Free World	Communist Nations	Total World	U.S. as a Percent of Free World Total	U.S. as a Percent of World Total	Year
1947	5,088	21	1,573	35	839	24	67	7,647	633	8,280	66.5%	61.4%	1947
1948	5,520	34	1,730	36	1,138	37	153	8,648	732	9,380	63.8	58.8	1948
1949	5,046	58	1,739	48	1,402	44	204	8,541	785	9,326	59.1	54.1	1949
1950	5,407	80	1,963	69	1,756	46	238	9,559	860	10,419	56.6	51.9	1950
1951	6,158	130	2,203	92	1,921	46	277	10,827	907	11,734	56.9	52.5	1951
1952	6,256	167	2,305	111	2,078	48	298	11,263	1,117	12,380	55.5	50.5	1952
1953	6,458	222	2,270	131	2,424	49	333	11,887	1,258	13,145	54.3	49.1	1953
1954	6,342	263	2,448	151	2,737	42	350	12,333	1,411	13,744	51.4	46.1	1954
1955	6,807	355	2,741	177	3,247	38	380	13,745	1,668	15,413	49.5	44.2	1955
1956	7,151	470	3,083	198	3,444	36	398	14,780	1,954	16,734	48.4	42.7	1956
1957	7,170	498	3,444	229	3,542	50	457	15,390	2,250	17,640	46.6	40.6	1957
1958	6,710	453	3,328	239	4,269	87	465	15,551	2,552	18,103	43.1	37.1	1958
1959	7,054	506	3,564	258	4,615	115	530	16,642	2,901	19,543	42.4	36.1	1959
1960	7,035	518	3,731	288	5,255	288	553	17,668	3,300	20,968	39.8	33.6	1960
1961	7,183	605	3,906	314	5,633	489	553	18,683	3,745	22,428	38.4	32.0	1961
1962	7,332	669	4,248	335	6,186	804	597	20,171	4,163	24,334	36.3	30.1	1962
1963	7,542	706	4,337	356	6,812	1,190	607	21,550	4,582	26,132	35.0	28.9	1963
1964	7,614	752	4,493	389	7,613	1,704	625	23,190	4,978	28,168	32.8	27.0	1964
1965	7,804	814	4,608	401	8,367	2,224	673	24,891	5,417	30,308	31.4	25.7	1965
1966	8,295	878	4,577	394	9,338	2,821	702	27,005	5,931	32,936	30.7	25.2	1966
1967	8,810	962	4,887	391	10,048	3,117	790	29,005	6,377	35,382	30.4	24.9	1967
1968	9,096	1,191	5,013	385	11,298	3,992	925	31,900	6,751	38,651	28.5	23.5	1968
1969	9,238	1,126	5,110	382	12,447	5,069	1,104	34,476	7,230	41,706	26.8	22.2	1969
1970	9,637	1,263	5,250	374	13,957	6,069	1,378	37,928	7,877	45,805	25.4	21.0	1970
1971	9,463	1,348	5,114	361	16,381	5,645	1,589	39,901	8,490	48,391	23.7	19.6	1971
1972	9,441	1,532	4,885	378	18,116	5,699	1,888	41,939	8,883	50,822	22.5	18.6	1972
1973	9,208	1,776	5,191	380	21,219	5,922	2,235	45,931	9,872	55,803	20.0	16.5	1973
1974[r]	8,774	1,689	4,900	389	21,882	5,452	2,236	45,322	10,946	56,268	19.4	15.6	1974[r]

---

[r] Revised

[1] Includes lease condensate

Source: U.S. Department of the Interior, Bureau of Mines — 1947-1958: Minerals Yearbook Annual
1959-1972: International Petroleum Annual
1973-1974: World Crude Oil Production Annual 1975, June 9, 1976

November 1976

Section IV
Table 2

WORLD CRUDE OIL PRODUCTION BY AREA
(Thousands of barrels per day)

Year	United States[1]	Canada	Latin America	Western Europe	Middle East	Africa	Asia-Pacific	Total Free World	Communist Nations	Total World	U.S. as a Percent of Free World Total	U.S. as a Percent of World Total	Year
1975	8,374	1,426	4,393	548	19,619	5,003	2,209	41,573	11,858	53,431	20.1%	15.7%	1975
1976	8,132	1,335	4,440	852	22,174	5,833	2,521	45,287	12,613	57,900	18.0	14.0	1976
1977	8,245	1,321	4,513	1,341	22,430	6,236	2,787	46,873	13,130	60,003	17.6	13.7	1977
1978	8,701	1,324	4,756	1,762	21,603	6,120	2,843	47,109	13,598	60,707	18.5	14.3	1978
1979[r]	8,533	1,496	5,254	2,270	21,556	6,623	2,819	48,551	14,022	62,573	17.6	13.6	1979[r]
1980[p]	8,604	1,416	5,590	2,441	18,402	6,048	2,732	45,233	14,248	59,481	19.0	14.5	1980[p]

[r] Revised

[p] Preliminary

[1] Includes lease condensate

Source: U.S. Energy Information Administration: World Crude Oil Production Annual.
1979-1980: Central Intelligence Agency, International Energy Statistical Review.

WORLD CRUDE OIL PRODUCTION—TWENTY LEADING NATIONS
(Thousands of barrels)

	1974			
	PRODUCTION		% of Free World Production	% of Total World Production
Nation	Total	Barrels Per Day		
1. U.S.S.R.[1]	3,373,650	9.243	—	16.4%
2. United States[1]	3,202,585	8,774	19.4%	15.6
3. Saudi Arabia[2]	2,996,543	8,210	18.1	14.6
4. Iran	2,197,901	6,022	13.3	10.7
5. Venezuela	1,086,332	2,976	6.6	5.3
6. Kuwait[2]	830,580	2,276	5.0	4.0
7. Nigeria	823,347	2,256	5.0	4.0
8. Iraq	720,729	1,975	4.4	3.5
9. Canada	616,532	1,689	3.7	3.0
10. United Arab Emirates	616,485	1,689	3.7	3.0
11. Libya	555 291	1,521	3.4	2.7
12. Indonesia	501,838	1,375	3.0	2.4
13. People's Republic of China	474,500	1,300	—	2.3
14. Algeria	368,139	1,009	2.2	1.8
15. Mexico[1]	238,271	653	1.4	1.2
16. Qatar	189,348	519	1.1	0.9
17. Argentina	151,110	414	0.9	0.7
18. Australia	140,396	385	0.8	0.7
19. Romania	107,964	296	—	0.5
20. Oman	106,046	291	0.6	0.5
TOTAL FREE WORLD	16,542,571	45,322	100.0	80.5
TOTAL WORLD	20.537.727	56.268	—	100.0

	1975[r]			
	PRODUCTION		% of Free World Production	% of Total World Production
Nation	Total	Barrels Per Day		
1. U.S.S.R.[1]	3,608,850	9,887	—	18.5%
2. United States[1]	3,052,046	8,362	20.1%	15.7
3. Saudi Arabia[2]	2,491,834	6,827	16.4	12.8
4. Iran	1,952,650	5,350	12.9	10.0
5. Venezuela	856,364	2,346	5.6	4.4
6. Iraq	825,521	2,262	5.4	4.2
7. Kuwait[2]	670,918	1,838	4.4	3.4
8. Nigeria	651,890	1,786	4.3	3.3
9. United Arab Emirates	618,310	1,694	4.1	3.2
10. People's Republic of China	571,590	1,566	—	2.9
11. Libya	551,150	1,510	3.6	2.8
12. Canada	520,666	1,426	3.4	2.7
13. Indonesia	477,055	1,307	3.1	2.4
14. Algeria	350,753	961	2.3	1.8
15. Mexico	294,254	806	1.9	1.5
16. Qatar	159,482	437	1.1	0.8
17. Australia	149,873	411	1.0	0.8
18. Argentina	144,364	396	1.0	0.7
19. Oman	124,600	341	0.7	0.6
20. Romania	108,739	298	—	0.6
TOTAL FREE WORLD	15,169,574	41,560	100.0	77.8
TOTAL WORLD	19,497,604	53,418	—	100.0

[r] Revised

[1] Includes lease condensate.

[2] Saudi Arabia and Kuwait equally share production from the Neutral Zone which amounted to 181,431,000 barrels (497,071 barrels per day) in 1975 and 198,195,000 (543,000 barrels per day) in 1974. This production is not included in the above figures.

Source: U.S. Bureau of Mines, World Crude Oil Production Annual

WORLD CRUDE OIL PRODUCTION — TWENTY LEADING NATIONS
(Thousands of Barrels)

	1976			
	PRODUCTION		% of	% of
Nation	Total	Barrels Per Day	Free World Production	Total World Production
1. U.S.S.R.[1]	3,822,000	10,443	—	18.0%
2. Saudi Arabia[2]	3,053,887	8,344	18.4%	14.4
3. United States[1]	2,976,180	8,119	17.9	14.0
4. Iran	2,168,237	5,924	13.1	10.2
5. Venezuela	839,737	2,294	5.1	4.0
6. Iraq	834,810	2,281	5.0	3.9
7. Nigeria	756,064	2,066	4.6	3.6
8. Libya	704 011	1,924	4.2	3.3
9. Kuwait[2]	700,000	1,913	4.2	3.3
10. United Arab Emirates	692,106	1,891	4.2	3.3
11. People's Republic of China	645,897	1,765	3.9	3.0
12. Indonesia	550,319	1,504	3.3	2.6
13. Canada	488,680	1,335	2.9	2.3
14. Algeria	383,816	1,049	2.3	1.8
15. Mexico	327,285	894	2.0	1.5
16. Qatar	178,120	487	1.1	0.8
17. Australia	152,522	417	0.9	0.7
18. Argentina	145,561	398	0.9	0.7
19. Oman	133,795	366	0.8	0.6
20. Egypt	120,180	328	0.7	0.6
TOTAL FREE WORLD	16,575,174	45,287	100.0	78.2
TOTAL WORLD	21,191,540	57,900	—	100.0

	1977[r]			
	PRODUCTION		% of	% of
Nation	Total	Barrels Per Day	Free World Production	Total World Production
1. U.S.S.R.[1]	3,991,050	10,934	—	18.3%
2. Saudi Arabia[2]	3,290,000	9,014	19.3%	15.1
3. United States[1]	3,009,265	8,245	17.6	13.7
4. Iran	2,080,051	5,699	12.1	9.5
5. Iraq	909,945	2,493	5.3	4.2
6. Venezuela	816,818	2,238	4.8	3.7
7. Nigeria	765,473	2,097	4.5	3.5
8. Libya	753,178	2,064	4.4	3.4
9. United Arab Emirates	729,506	1,999	4.3	3.3
10. People's Republic of China	653,350	1,790	3.8	3.0
11. Kuwait[2]	650,795	1,783	3.8	3.0
12. Indonesia	615,123	1,685	3.6	2.8
13. Canada	482,021	1,321	2.8	2.2
14. Algeria	409,864	1,123	2.4	1.9
15. Mexico	358,090	981	2.1	1.6
16. United Kingdom	271,653	744	1.6	1.2
17. Qatar	162,316	445	1.0	0.7
18. Argentina	157,248	431	0.9	0.7
19. Australia	157,155	431	0.9	0.7
20. Egypt	150,925	413	0.9	0.7
TOTAL FREE WORLD	17,108,078	46,871	100.0	78.0
TOTAL WORLD	21,900,695	60,002	—	100.0

---

[r] Revised

[1] Includes lease condensate.

[2] Saudi Arabia and Kuwait equally share production from the Neutral Zone which amounted to 171,669,000 barrels (469,041 barrels per day) in 1976 and 136,072,800 barrels (372,000 barrels per day) in 1977. This production is not included in the above figures.

Source: U.S. Energy Information Administration, World Crude Oil Production Annual.

WORLD CRUDE OIL PRODUCTION—TWENTY LEADING NATIONS
(Thousands of Barrels)

	1978			
	PRODUCTION		% of	% of
Nation	Total	Barrels Per Day	Free World Production	Total World Production
1. U.S.S.R.	4,093,475	11,215	—	18.5%
2. United States(1)	3,175,927	8,701	18.5%	14.3
3. Saudi Arabia	3,113,470	8,530	18.1	14.0
4. Iran	1,900,555	5,207	11.1	8.6
5. Iraq	959,585	2,629	5.6	4.3
6. Venezuela	790,418	2,165	4.6	3.6
7. People's Republic of China	731,825	2,005	4.3	3.3
8. Libya	727,445	1,993	4.2	3.3
9. Nigeria	697,150	1,910	4.1	3.2
10. Kuwait	680,725	1,865	4.0	3.1
11. United Arab Emirates	668,680	1,832	3.9	3.0
12. Indonesia	597,505	1,637	3.5	2.7
13. Canada(1)	483,260	1,324	2.8	2.2
14. Algeria(1)	447,125	1,225	2.6	2.0
15. Mexico(1)	440,555	1,207	2.6	2.0
16. United Kingdom	394,930	1,082	2.3	1.8
17. Qatar	176,537	484	1.0	0.8
18. Neutral Zone	170,090	466	1.0	0.8
19. Egypt	169,360	464	1.0	0.8
20. Argentina	165,195	453	1.0	0.8
TOTAL FREE WORLD	17,195,001	47,105	100.0	77.6
TOTAL WORLD	22,158,251	60,708	—	100.0

	1979(r)			
	PRODUCTION		% of	% of
Nation	Total	Barrels Per Day	Free World Production	Total World Production
1. U.S.S.R	4,187,280	11,472	—	18.2%
2. Saudi Arabia	3,376,615	9,251	18.9%	14.2
3. United States(1)	3,114,545	8,533	17.4	13.6
4. Iraq	1,269,105	3,477	7.1	5.5
5. Iran	1,156,320	3,168	6.5	5.0
6. Venezuela	859,940	2,356	4.8	3.7
7. Nigeria	840,230	2,302	4.7	3.7
8. Kuwait	807,745	2,213	4.5	3.5
9. People's Republic of China	774,530	2,122	4.3	3.4
10. Libya	763,580	2,092	4.3	3.3
11. United Arab Emirates	668,315	1,831	3.7	2.9
12. Indonesia	580,715	1,591	3.3	2.5
13. United Kingdom	572,320	1,568	3.2	2.5
14. Canada(1)	546,040	1,496	3.1	2.4
15. Mexico(1)	533,265	1,461	3.0	2.3
16. Algeria(1)	415,005	1,137	2.3	1.8
17. Neutral Zone	207,320	568	1.2	0.9
18. Egypt	191,625	525	1.1	0.8
19. Brunei-Malaysia	187,975	515	1.1	0.8
20. Qatar	185,420	508	1.0	0.8
TOTAL FREE WORLD	17,852,515	48,911	100.0	77.7
TOTAL WORLD	22,970,545	62,933	—	100.0

(r) Revised

(1) Includes lease condensate.

Source: 1978-U.S. Energy Information Administration, World Crude Oil Production Annual.
1979-Central Intelligence Agency, International Energy Statistical Review.

WORLD CRUDE OIL PRODUCTION—TWENTY LEADING NATIONS
(Thousands of Barrels)

	1980			
	PRODUCTION		% of	% of
Nation	Total	Barrels Per Day	Free World Production	Total World Production
1. U.S.S.R.	4,289,520	11,720	—	19.7%
2. Saudi Arabia	3,523,116	9,626	21.3	16.2
3. United States[1]	3,149,064	8,604	19.0	14.5
4. Iraq	920,124	2,514	5.6	4.2
5. Venezuela	793,122	2,167	4.8	3.6
6. People's Republic of China	773,724	2,114	—	3.6
7. Nigeria	752,130	2,055	4.5	3.5
8. Mexico[1]	708,942	1,937	4.3	3.3
9. Libya	654,042	1,787	4.0	3.0
10. United Arab Emirates	625,494	1,709	3.8	2.9
11. Iran	608,292	1,662	3.7	2.8
12. United Kingdom	592,554	1,619	3.6	2.7
13. Indonesia	577,182	1,577	3.5	2.7
14. Canada[1]	518,256	1,416	3.1	2.4
15. Kuwait	507,642	1,387	3.1	2.3
16. Algeria[1]	379,542	1,037	2.3	1.7
17. Egypt	217,770	595	1.3	1.0
18. Neutral Zone	196,906	538	1.2	0.9
19. Norway	193,248	528	1.2	0.9
20. Brunei-Malaysia	189,588	518	1.1	0.9
TOTAL FREE WORLD	16,555,27"	45,233	100.0	76.0
TOTAL WORLD	21,770,048	59,481	—	100.0

[1] Includes these condensate.

Source: 1980-Central Intelligence Agency, International Energy Statistical Review.

Section IV
Table 4

U.S. STRIPPER WELLS AND STRIPPER WELL PRODUCTION

Year	Number of Stripper Wells (as of Dec. 31)	Total Production from Stripper Wells (000 barrels)	Average Production Per Well (B/D)	Total(1) U.S. Crude Oil Production (000 barrels)	Stripper Percent of Total Production
1947	294,672	279,659	2.6	1,856,987	15.1
1948	310,892	352,899	3.1	2,020,185	17.5
1949	313,970	350,871	3.1	1,841,940	19.0
1950	321,287	375,551	3.2	1,973,574	19.0
1951	320,689	341,241	2.9	2,247,711	15.2
1952	332,058	374,175	3.1	2,289,836	16.3
1953	332,552	383,947	3.2	2,357,082	16.3
1954	340,276	432,496	3.5	2,314,988	18.7
1955	357,931	463,702	3.5	2,484,428	18.7
1956	370,489	485,637	3.6	2,617,283	18.6
1957	372,519	474,919	3.5	2,616,901	18.1
1958	373,870	511,842	3.8	2,449,016	20.9
1959	392,535	533,470	3.7	2,574,590	20.7
1960	403,323	577,151	3.9	2,574,933	22.4
1961	406,102	591,911	4.0	2,621,758	22.6
1962	406,051	579,410	3.9	2,676,189	21.7
1963	401,031	555,130	3.8	2,752,723	20.2
1964	394,107	534,567	3.7	2,786,822	19.9
1965	398,299	589,016	4.0	2,848,514	20.7
1966	380,549	485,166	3.5	3,027,763	16.0
1967	376,851	499,601	3.6	3,215,742	15.5
1968	367,205	485,162	3.6	3,329,042	14.6
1969	358,650	454,820	3.5	3,371,751	13.5
1970	359,130	441,287	3.4	3,517,450	12.5
1971	353,696	423,322	3.6	3,453,914	12.3
1972	359,471	411,925	3.1	3,455,368	11.9
1973	355,229	385,684	3.0	3,360,903	11.5
1974	366,095	411,936	3.1	3,202,585	12.9
1975	367,872	394,163	2.9	3,056,779	12.9
1976	365,733	392,191	2.9	2,976,180	13.2
1977	368,930	392,532	2.9	2,985,360	13.1
1978	374,635	391,633	2.9	3,178,216	12.3
1979	386,310	394,405	2.8	3,121,310	12.6
1980	395,176	401,095	2.8	3,146,519	12.7

---

(1) Includes lease condensate

Source: National Stripper Well Survey
Total Crude Oil Production, Department of Energy

U.S. CRUDE OIL PRODUCTION1/ BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	396	466	462	735	1,020	1,279	1,694	1,584	1,411	3,069	5,406	5,887	5,524	7,329
Alaska	—	—	—	—	—	—	—	—	—	—	—	—	187	559
Arizona	—	—	—	—	—	—	—	—	—	—	—	12	2[illegible]	73
Arkansas	29,948	31,682	29,986	31,108	29,798	29,440	29,681	29,130	28,369	29,355	31,047	28,700	26,329	30,117
California	333,132	340,074	332,942	327,607	354,561	359,450	365,085	355,865	354,812	350,754	339,646	313,672	308,946	305,352
Colorado	15,702	17,862	23,587	23,303	27,823	30,381	36,402	46,206	52,653	58,516	54,982	48,736	46,440	47,469
Florida	259	290	441	487	596	591	543	548	495	479	461	449	424	369
Illinois	66,459	64,808	64,501	62,028	60,243	60,089	59,026	66,798	81,423	82,346	77,063	80,275	76,727	77,347
Indiana	6,095	6,974	9,696	10,699	11,100	12,037	12,823	11,204	10,988	11,513	12,662	11,864	11,554	12,054
Kansas	105,132	110,903	101,868	107,586	114,522	114,807	114,566	119,317	121,669	124,204	123,614	119,942	119,543	113,453
Kentucky	9,397	8,801	8,803	10,381	11,622	11,918	11,518	13,791	15,518	17,628	17,029	17,509	27,272	21,147
Louisiana	160,128	181,458	190,826	208,965	232,281	243,929	256,632	246,558	271,010	299,421	329,896	313,891	362,666	400,832
Michigan	16,215	16,871	16,517	15,826	13,927	13,251	12,285	12,028	11,266	10,740	10,169	9,308	10,439	15,899
Mississippi	34,925	45,761	37,966	38,236	37,039	36,310	35,620	34,240	37,741	40,824	38,922	39,512	49,620	51,673
Missouri	55	31	49	32	24	21	39	96	72	65	65	81	75	75
Montana	8,742	9,382	9,118	8,109	8,958	9,606	11,920	14,195	15,654	21,760	27,172	27,957	29,857	30,240
Nebraska	229	215	330	1,547	2,558	2,660	6,344	7,783	11,203	16,204	19,586	20,373	22,881	23,825
Nevada	—	—	—	—	—	—	—	33	64	64	44	40	32	27
New Mexico	40,926	47,969	47,645	47,367	52,719	58,681	70,441	74,820	82,958	87,893	94,759	98,515	105,692	107,380
New York	4,762	4,621	4,425	4,143	4,254	4,242	3,800	3,257	2,904	2,748	2,677	1,763	1,970	1,813
North Dakota	—	—	—	—	25	1,549	5,183	6,025	11,143	13,495	13,259	14,259	17,824	21,992
Ohio	3,108	3,600	3,483	3,383	3,140	3,350	3,610	3,830	4,353	4,785	5,478	6,260	5,978	5,405
Oklahoma	141,019	154,455	151,660	164,599	186,869	190,435	202,570	185,851	202,817	215,862	214,661	200,699	198,090	192,913
Pennsylvania	12,690	12,667	11,374	11,859	11,345	11,233	10,649	9,107	8,531	8,230	8,179	6,472	6,160	6,009
South Dakota	—	—	—	—	—	—	—	37	30	32	54	58	151	281
Tennessee	8	19	18	12	14	15	16	13	13	9	7	7	6	20
Texas	820,210	903,498	744,834	829,874	1,010,270	1,022,139	1,019,164	974,275	1,053,297	1,107,808	1,073,867	940,166	971,978	927,479
Utah	—	16	637	1,228	1,305	1,737	1,807	1,905	2,227	2,466	4,367	24,811	39,959	37,594
Virginia	61	33	43	21	12	10	8	7	4	4	5	4	6	2
Washington	—	—	—	—	—	—	—	—	—	—	5	4	1	1
West Virginia	2,617	2,692	2,839	2,808	2,757	2,602	3,038	2,902	2,320	2,179	2,215	2,186	2,184	2,300
Wyoming	44,772	55,032	47,890	61,631	68,929	68,074	82,618	93,533	99,483	104,830	109,584	115,572	126,050	133,910
Total	**1,856,987**	**2,020,185**	**1,841,940**	**1,973,574**	**2,247,711**	**2,289,836**	**2,357,082**	**2,314,988**	**2,484,428**	**2,617,283**	**2,616,901**	**2,448,987**	**2,574,590**	**2,574,933**
Daily Average	**5,088**	**5,520**	**5,046**	**5,407**	**6,158**	**6,256**	**6,458**	**6,342**	**6,807**	**7,151**	**7,170**	**6,710**	**7,054**	**7,035**

1/ Includes Lease Condensate

P/ preliminary

Source: U.S. Bureau of Mines, Petroleum Statement, Annuals

April 1976

U.S. CRUDE OIL PRODUCTION[1] BY STATES
(Thousand of Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Alabama	6,931	7,473	9,175	8,498	8,064	8,030	7,348	7,635	7,701	7,263	7,832	9,934	11,677
Alaska	6,327	10,259	10,740	11,059	11,128	14,358	29,126	66,204	73,953	83,616	79,494	72,893	72,323
Arizona	73	39	68	64	97	132	2,924	3,370	2,433	1,784	1,236	993	804
Arkansas	29,246	27,649	27,406	26,737	25,930	23,824	21,075	19,464	18,049	18,035	18,263	18,519	18,016
California	299,609	296,590	300,908	300,009	316,428	345,295	359,219	375,496	375,291	372,191	358,484	347,022	336,075
Colorado	46,759	42,477	38,283	34,755	33,511	33,492	33,905	31,937	28,294	24,723	27,391	32,015	36,590
Florida	374	419	464	620	1,464	1,799	1,568	1,474	1,731	2,999	5,347	16,897	32,695
Illinois	76,818	78,796	74,796	70,168	63,708	61,661	59,142	56,391	50,724	43,747	39,084	34,874	30,[illegible]69
Indiana	11,500	12,077	11,902	11,283	11,481	10,617	10,081	8,692	7,841	7,487	6,658	6,130	5,312
Kansas	112,241	112,076	109,107	106,252	104,733	103,738	99,200	94,505	88,716	84,853	78,532	73,744	66,227
Kentucky	18,344	17,789	18,344	19,772	19,386	18,066	15,535	14,036	12,924	11,575	10,692	9,702	8,687
Louisiana	424,962	477,153	515,057	549,698	594,853	674,318	774,527	817,426	844,603	906,907	935,243	891,827	831,524
Michigan	18,901	17,114	15,972	15,601	14,728	14,273	13,664	12,974	12,213	11,693	11,893	12,990	14,614
Mississippi	54,688	55,713	58,619	56,777	56,183	55,227	57,147	58,708	64,283	65,119	64,066	61,100	58,102
Missouri	72	55	53	65	73	97	75	65	67	66	66	60	60
Montana	30,906	31,648	30,870	30,647	32,778	35,380	34,959	48,460	43,954	37,879	34,599	33,904	34,620
Nebraska	24,369	24,894	21,846	19,113	17,216	13,850	13,373	13,183	12,[illegible]	11,451	10,062	8,705	7,240
Nevada	154	14[illegible]	118	255	209	307	279	271	223	149	1[illegible]3	100	96
New Mexico	112,553	109,328	109,941	113,863	119,166	124,154	126,144	128,550	129,227	128,184	118,412	110,525	100,986
New York	1,658	1,589	1,679	1,874	1,632	1,735	1,972	1,532	1,250	1,194	1,126	1,018	967
North Dakota	23,652	25,18[illegible]	25,030	25,731	26,350	27,126	25,315	25,040	22,703	21,998	21,653	20,624	20,235
Ohio	5,639	5,835	6,039	15,859	12,908	10,899	9,924	11,204	10,972	9,864	8,286	9,358	8,796
Oklahoma	193,081	202,732	201,962	202,524	203,441	224,839	230,749	223,623	224,729	223,574	213,313	207,633	191,204
Pennsylvania	5,643	5,302	5,083	5,113	4,922	4,337	4,387	4,160	4,448	4,093	3,798	3,441	3,282
South Dakota	233	169	215	247	219	239	211	187	158	160	233	219	275
Tennessee	17	14	16	10	11	7	7	6	[illegible]2	309	398	198	201
Texas	939,191	943,328	977,835	989,525	1,057,706	1,056,706	1,119,962	1,133,380	1,151,775	1,249,697	1,222,926	1,301,685	1,294,671
Utah	33,118	31,029	33,435	28,575	25,298	24,112	24,048	23,504	23,295	23,370	23,630	26,570	32,656
Virginia	2	3	3	6	4	1	3	3	1	1	1	—	—
Washington	—	—	—	—	—	—	—	—	—	—	—	—	—
West Virginia	2,760	3,470	3,350	3,370	3,530	3,674	3,561	3,312	3,104	3,124	2,969	2,677	2,385
Wyoming	141,937	135,847	144,407	138,752	138,314	134,470	136,312	144,250	154,945	160,345	148,114	140,011	141,914
Total	**2,621,758**	**2,676,189**	**2,752,723**	**2,786,822**	**2,848,514**	**3,027,763**	**3,215,742**	**3,329,042**	**3,371,751**	**3,517,450**	**3,453,914**	**3,455,368**	**3,360,903**
Daily Average	**7,183**	**7,332**	**7,542**	**7,614**	**7,804**	**8,295**	**8,810**	**9,096**	**9,238**	**9,637**	**9,463**	**9,441**	**9,20[illegible]**

---

[1] Includes Lease Condensate

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues

U.S. CRUDE OIL PRODUCTION[1] BY STATES
(Thousand of Barrels)

STATE	1974	1975	1976	1977	1978	1979	1980 (p)
Alabama	13,323	13,477	14,706	18,252	19,829	19,161	21,911
Alaska	70,603	69,834	63,398	169,201	448,620	511,335	591,684
Arizona	740	635	519	427	418	472	399
Arkansas	16,527	16,133	18,097	20,202	20,329	18,869	18,210
California	323,003	322,199	326,021	349,609	347,181	352,268	356,644
Colorado	37,508	38,089	38,992	39,460	36,797	32,324	29,565
Florida	36,351	41,877	44,460	46,641	47,536	47,168	42,846
Illinois	27,553	26,067	26,272	25,608	23,362	21,793	22,935
Indiana	4,919	4,632	4,630	5,314	4,689	4,715	4,627
Kansas	61,691	59,106	58,714	57,496	56,586	56,995	60,152
Kentucky	7,837	7,556	7,483	6,581	5,724	5,514	5,934
Louisiana	737,324	650,840	606,501	562,905	532,740	489,687	466,964
Michigan	18,021	24,420	30,421	32,965	34,667	34,862	32,753
Mississippi	50,779	46,614	46,072	43,022	42,024	37,327	36,533
Missouri	56	57	61	60	54	91	71
Montana	34,554	32,844	32,814	32,680	30,467	29,957	29,566
Nebraska	6,611	6,120	6,182	5,968	5,862	6,068	6,255
Nevada	129	115	143	661	1,156	1,235	1,146
New Mexico	98,695	95,063	92,130	87,223	83,365	79,649	75,456
New York	896	875	857	824	852	855	842
North Dakota	19,697	20,452	21,725	23,273	24,812	30,914	40,014
Ohio	9,088	9,578	9,994	10,359	11,154	11,953	12,518
Oklahoma	177,785	163,123	161,426	156,382	150,456	143,642	151,960
Pennsylvania	3,478	3,264	3,019	2,715	2,887	2,874	3,476
South Dakota	494	472	447	632	869	846	789
Tennessee	769	682	598	820	593	614	742
Texas	1,262,126	1,221,929	1,189,523	1,137,880	1,074,050	1,018,094	975,239
Utah	39,363	42,301	34,304	33,113	31,368	27,728	25,721
Virginia	3	3	3	2	2	4	0
Washington	—	—	—	—	—	—	—
West Virginia	2,665	2,479	2,519	2,518	2,382	2,406	2,258
Wyoming	139,997	135,943	134,149	136,472	137,385	131,890	129,309
Total	**3,202,585**	**3,056,779**	**2,976,180**	**3,009,265**	**3,178,216**	**3,121,310**	**3,146,519**
Daily Average	**8,774**	**8,374**	**8,132**	**8,245**	**8,707**	**8,552**	**8,597**

(p) Preliminary

[1] Includes Lease Condensate

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1980-U.S. Energy Information Administration, December Statement

September 1981

Section IV
Table 5b

U.S. AVERAGE CRUDE OIL PRODUCTION[1]/ PER WELL PER DAY BY STATE

(Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	—	—	—	—	—	—	—	—	—	—	—			55.3
Alaska	—	—	—	—	—	—	—	—	—	—	—		170.8	138.9
Arizona	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arkansas	23.6	23.8	22.4	23.2	21.8	20.8	20.0	18.6	17.2	16.3	15.6	13.8	12.2	13.1
California	38.3	36.5	35.9	34.2	33.7	32.5	31.8	30.1	28.8	27.1	25.5	23.4	23.1	22.3
Colorado	84.4	75.1	89.1	84.0	94.7	90.2	89.8	85.2	78.2	78.2	69.5	61.0	59.4	63.1
Florida	—	—	—	—	—	—	—	—	—	—	—		—	—
Illinois	7.1	6.8	6.6	6.2	6.0	6.0	5.7	6.1	7.5	7.4	6.7	6.9	6.6	6.6
Indiana	7.6	7.5	9.3	9.2	8.7	8.8	8.9	7.5	7.3	7.4	7.8	6.8	6.4	6.4
Kansas	10.7	10.9	9.7	9.7	9.9	9.5	9.1	8.9	9.0	9.2	8.9	8.6	8.4	7.7
Kentucky	1.7	1.6	1.6	1.8	2.0	1.9	1.9	2.3	2.5	2.6	2.8	2.6	3.7	2.8
Louisiana	52.4	53.7	50.6	50.3	52.3	51.7	51.1	44.7	42.7	41.2	42.2	38.1	42.7	45.5
Michigan	12.6	13.0	12.3	11.2	9.8	9.3	8.4	8.1	7.5	7.1	6.8	6.4	7.1	10.3
Mississippi	100.2	102.5	74.3	68.2	59.2	54.7	51.1	45.5	45.8	47.3	45.5	47.5	58.5	51.5
Missouri	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Montana	8.5	8.6	8.0	6.9	7.3	7.6	9.4	11.4	12.6	17.0	20.2	19.9	21.0	21.8
Nebraska	10.5	10.7	16.4	42.4	35.0	26.0	53.5	47.4	45.8	54.8	57.8	50.3	47.3	43.0
Nevada	—	—	—	—	—	—	—	—	—	—	—	—	—	
New Mexico	23.1	25.3	23.8	22.4	23.4	24.4	27.4	27.2	27.7	26.6	25.7	23.6	23.4	21.7
New York	.6	.6	.5	.5	.5	.5	.5	.4	.4	.4	.4	.2	.3	.3
North Dakota	—	—	—	—	—	99.6	83.5	46.0	59.3	54.2	42.5	39.9	38.5	42.3
Ohio	.4	.5	.5	.5	.5	.5	.6	.7	.8	.9	1.0	1.2	1.0	.9
Oklahoma	7.4	8.0	7.7	8.1	9.0	8.8	9.0	7.9	8.2	8.4	8.1	7.3	7.2	6.9
Pennsylvania	.4	.4	.4	.4	.4	.4	.4	.3	.3	.3	.3	.3	.2	.2
South Dakota	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tennessee		—	—	—	—	—	—	—	—	—	—	—	—	—
Texas	2[illegible]	22.4	17.5	18.3	21.0	20.4	19.7	18.0	18.4	17.9	16.1	13.6	14.1	13.3
Utah	—	—	—	—	—	—	—	—	—	—	75.7	182.7	180.1	137.6
Virginia	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Washington	—	—	—	—	—	—	—	—	—	—	—	—	—	—
West Virginia	.4	.5	.5	.5	.5	.5	.6	.6	.5	.5	.5	.5	.5	.5
Wyoming	28.7	33.7	27.5	32.9	34.6	32.6	40.0	42.5	40.4	40.5	41.1	42.4	47.2	50.3
Other	16.4	15.6	25.9	32.8	32.8	35.3	35.7	33.2	32.4	42.9	45.4	42.0	34.1	12.0
Total	**12.0**	**12.8**	**11.4**	**11.8**	**13.1**	**13.0**	**13.1**	**12.6**	**13.2**	**13.3**	**12.8**	**11.7**	**12.2**	**12.0**

/ Includes Lease Condensate

Source: U.S. Bureau of Mines, Minerals Yearbook and Annual Petroleum Statement

April 1976

Section IV
Table 6

U.S. AVERAGE CRUDE OIL PRODUCTION[1] PER WELL PER DAY BY STATE
(Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973[r]	1974[r]	1975[p]	1976[p]
Alabama	47.6	47.2	52.8	45.5	42.6	42.2	38.1	38.7	38.5	35.8	38.4	49.3	56.6	62.5	62.1	64.8
Alaska	559.2	573.6	555.2	549.4	539.6	609.9	961.4	1,407.7	1,171.2	1,190.1	1,161.6	1,088.3	1,029.3	989.4	947.2	897.5
Arizona	—	21.4	28.7	20.6	29.5	45.2	616.2	438.5	261.4	171.5	116.8	93.6	78.7	76.5	65.7	51.6
Arkansas	12.6	12.4	12.6	12.1	11.8	10.5	9.0	8.2	7.9	7.5	7.1	7.1	6.9	6.3	6.1	6.7
California	21.6	21.9	20.7	20.2	21.2	23.0	23.7	24.7	25.0	25.0	24.5	24.0	23.6	22.4	21.7	21.3
Colorado	63.4	56.3	50.7	47.3	46.9	42.6	45.3	49.1	42.6	37.8	42.2	47.5	51.4	49.2	45.1	40.4
Florida	—	104.4	110.5	109.3	140.7	123.2	103.5	94.8	106.6	156.5	212.3	419.7	619.9	703.8	822.4	849.5
Illinois	6.6	6.9	6.8	6.4	6.0	5.9	5.7	5.6	5.1	4.5	4.2	3.8	3.4	3.1	3.0	3.1
Indiana	5.8	5.8	5.6	5.4	5.9	5.5	5.5	5.2	5.1	5.0	4.8	4.2	3.3	3.1	2.8	2.6
Kansas	7.6	7.0	6.4	6.2	6.1	6.1	5.8	5.3	5.4	5.3	5.0	4.8	4.4	4.1	3.9	3.8
Kentucky	2.5	2.5	2.9	3.6	3.4	3.3	3.0	3.0	2.9	2.7	2.2	1.8	1.6	1.5	1.5	1.5
Louisiana	47.1	51.1	52.2	52.6	54.7	60.3	68.7	73.3	77.6	86.7	93.6	89.3	81.9	72.3	64.0	61.4
Michigan	12.0	10.9	10.3	10.2	9.9	9.6	9.2	8.6	8.2	7.8	7.8	9.2	10.8	12.4	17.0	22.4
Mississippi	50.7	56.8	61.3	59.0	60.4	59.8	61.3	62.2	68.4	63.2	56.5	53.0	50.4	54.0	56.9	56.6
Missouri	—	1.4	1.4	1.7	1.7	1.8	1.4	1.3	1.3	1.2	1.4	1.2	1.2	1.1	1.0	1.0
Montana	24.0	24.7	23.1	24.0	25.2	26.5	27.8	39.1	35.9	31.6	29.7	27.7	27.0	28.8	28.3	27.4
Nebraska	38.9	37.6	34.3	30.4	28.4	24.3	24.9	25.4	24.5	24.6	22.6	20.4	17.6	16.2	14.5	13.6
Nevada	—	96.6	80.8	154.8	81.8	88.5	66.5	57.0	50.9	40.8	41.3	45.5	43.8	47.1	42.0	43.4
New Mexico	20.8	19.1	18.3	18.1	18.4	19.7	20.8	20.9	20.8	20.4	18.8	17.5	16.1	17.8	19.3	18.2
New York	.2	.3	.3	.4	.4	.4	1.1	.9	.7	.6	.5	.5	.5	.5	.5	.5
North Dakota	41.4	39.7	37.9	38.0	37.4	37.2	34.0	33.1	30.6	35.0	40.6	39.3	39.5	37.3	32.2	33.3
Ohio	.9	.9	1.1	3.1	2.6	2.1	1.9	2.0	1.9	1.8	1.5	1.7	1.6	1.6	1.6	1.6
Oklahoma	6.7	6.9	6.8	6.8	6.9	7.6	7.8	7.5	7.6	7.7	7.6	7.6	7.1	6.7	6.2	6.1
Pennsylvania	.2	.2	.2	.3	.3	.2	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3
South Dakota	—	24.4	27.4	28.1	23.1	14.7	20.3	18.6	16.3	16.9	21.6	19.3	26.9	46.7	37.5	30.2
Tennessee	—	1.1	1.1	.7	.8	.6	.6	.5	2.6	18.6	15.9	7.2	7.9	19.1	11.5	8.4
Texas	13.2	13.1	13.5	13.6	13.8	23.0	15.8	16.3	17.0	19.0	19.2	20.9	21.7	21.7	20.9	20.2
Utah	114.0	103.3	108.6	93.2	82.5	77.4	75.9	73.6	74.3	73.9	73.6	82.5	95.2	104.4	96.6	74.7
Virginia	—	1.6	1.5	2.3	1.6	.7	2.7	1.8	.5	.5	.9	—	—	5.5	1.6	1.2
Washington	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
West Virginia	.6	.7	.7	.7	.7	.8	.7	.7	.7	.7	.7	.6	.5	.5	.5	.5
Wyoming	50.6	48.1	52.1	49.1	47.0	44.6	44.0	46.8	49.1	48.1	44.5	42.7	46.9	47.1	41.1	39.6
Other	13.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	**12.1**	**12.3**	**12.7**	**12.9**	**13.3**	**14.2**	**15.3**	**16.2**	**16.9**	**18.0**	**18.1**	**18.4**	**18.3**	**17.6**	**16.8**	**16.3**

---

[p] Preliminary
[r] Revised
[1] Includes lease condensate

Source: U.S. Bureau of Mines, Minerals Yearbook and Annual Petroleum Statement

October 1977

U.S. AVERAGE CRUDE OIL PRODUCTION(1) PER WELL PER DAY BY STATE
(Barrels)

STATE	1977	1978	1979
Alabama	79.1	65.0	60.3
Alaska	1,935.6	3,805.3	3,765.9
Arizona	41.8	36.4	37.0
Arkansas	7.2	7.1	6.5
California	22.3	21.9	22.1
Colorado	36.9	32.1	26.4
Florida	903.1	1,037.7	1,143.6
Illinois	3.0	2.7	2.5
Indiana	2.9	2.5	2.4
Kansas	3.7	3.6	3.6
Kentucky	1.3	1.1	1.1
Louisiana	61.5	60.3	54.5
Michigan	23.5	24.4	24.6
Mississippi	47.0	40.0	32.9
Missouri	0.9	0.9	1.2
Montana	27.0	24.8	23.2
Nebraska	12.2	11.3	11.0
Nevada	120.7	186.3	188.0
New Mexico	16.9	14.4	11.2
New York	0.5	0.9	0.5
North Dakota	40.2	34.7	34.4
Ohio	1.7	1.7	1.7
Oklahoma	5.9	5.5	5.2
Pennsylvania	0.3	0.3	0.3
South Dakota	30.9	30.9	25.8
Tennessee	9.0	5.5	5.1
Texas	19.2	17.8	16.6
Utah	68.6	62.8	53.3
Virginia	1.0	1.2	1.8
Washington	—	—	—
West Virginia	0.5	0.5	0.5
Wyoming	37.1	35.3	33.9
Other	—	—	—
TOTAL	16.4	17.0	16.3

---

(1) Includes lease condensate

Source: Department of Energy, Energy Information Administration, Annual Petroleum Statement

May 1981

BASIC PETROLEUM DATA BOOK

SECTION V. FINANCIAL

Table 1. Average Hourly Earnings: Total Mining and Manufacturing vs. Petroleum and Natural Gas Production and Petroleum Refining

Table 2. Number of Employees: Petroleum and Natural Gas Extraction and Petroleum Refining

Table 3. Sources of Capital of a Group of Petroleum Companies

Table 4. Net Income as a Percent of Net Worth: Petroleum, Other Selected Industry Groups, Total Manufacturing and Total Mining

Table 5. Domestic and Foreign Net Income of a Group of Petroleum Companies

Table 6. World Petroleum Industry Capital and Exploration Expenditures

Table 7. Sources and Uses of Working Capital of a Group of Petroleum Companies

Table 8. Domestic and Foreign Capital Expenditures of the World Petroleum Industry

Table 9. Estimated U.S. Exploration and Development Expenditures, Chase Manhattan Bank Group and All Other Companies

Table 10. U.S. Estimated Expenditures for Exploration, Development and Production

Table 11. Environmental Protection Expenditures of the Petroleum Industry within the U.S.

BEST AVAILABLE COPY

Section V
Table I

AVERAGE HOURLY EARNINGS—TOTAL MINING AND MANUFACTURING VS. PETROLEUM AND NATURAL GAS EXTRACTION AND PETROLEUM REFINING

(Annual Average)

		Petroleum and Natural Gas Extraction				
Year	Total Mining	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	Total Manufacturing	Petroleum Refining
1947	$1.47	N.A.	$1.40	N.A.	$1.22	$1.57
1948	1.66	N.A.	1.58	N.A.	1.33	1.79
1949	1.72	N.A.	1.69	N.A.	1.38	1.88
1950	1.77	N.A.	1.72	N.A.	1.44	1.94
1951	1.93	N.A.	1.85	N.A.	1.56	2.09
1952	2.01	N.A.	1.98	N.A.	1.65	2.20
1953	2.14	N.A.	2.10	N.A.	1.74	2.33
1954	2.14	N.A.	2.15	N.A.	1.78	2.38
1955	2.20	N.A.	2.20	N.A.	1.86	2.47
1956	2.33	N.A.	2.35	N.A.	1.95	2.66
1957	2.46	N.A.	2.47	N.A.	2.05	2.77
1958	2.47	$2.39	2.54	$2.24	2.11	2.84
1959	2.56	2.43	2.65	2.25	2.19	2.99
1960	2.61	2.46	2.69	2.26	2.26	3.02
1961	2.64	2.53	2.80	2.30	2.32	3.16
1962	2.70	2.60	2.83	2.41	2.39	3.19
1963	2.75	2.66	2.92	2.43	2.46	3.32
1964	2.81	2.65	2.95	2.43	2.53	3.37
1965	2.92	2.74	3.03	2.53	2.61	3.47
1966	3.05	2.87	3.13	2.70	2.72	3.60
1967	3.19	3.03	3.25	2.88	2.83	3.77
1968	3.35	3.22	3.39	3.11	3.01	3.94
1969	3.61	3.43	3.60	3.33	3.19	4.23
1970	3.85	3.57	3.83	3.40	3.36	4.49
1971	4.06	3.75	4.15	3.48	3.57	4.82
1972	4.41	4.00	4.49	3.67	3.81	5.25
1973	4.73	4.29	4.79	3.99	4.08	5.54
1974	5.21	4.82	5.33	4.56	4.41	5.96
1975	5.90	5.34	6.05	5.00	4.81	6.90
1976	6.42	5.76	6.59	5.40	5.19	7.75
1977	6.88	6.23	7.13	5.87	5.63	8.44
1978	7.67	7.01	8.05	6.60	6.17	9.32
1979	8.48	7.73	8.80	7.34	6.69	10.08
1980	9.18	8.55	9.71	8.19	7.27	10.94

Source: U S. Bureau of Labor Statistics, "Employment and Earnings"

NUMBER OF EMPLOYEES
PETROLEUM AND NATURAL GAS EXTRACTION AND PETROLEUM REFINING
(Annual Average in Thousands)

	PETROLEUM AND NATURAL GAS EXTRACTION			
Year	Total	Crude Petroleum and Natural Gas Fields	Field Service Workers	PETROLEUM REFINING
1947	248.5	164.0	N.A.	189.3
1948	274.0	173.6	N.A.	196.6
1949	266.3	173.1	N.A.	191.6
1950	266.1	166.8	N.A.	185.4
1951	284.4	169.1	N.A.	198.6
1952	303.4	177.2	N.A.	201.6
1953	311.4	181.3	N.A.	206.3
1954	318.1	184.7	N.A.	203.6
1955	331.9	189.0	N.A.	201.3
1956	340.1	192.3	N.A.	200.8
1957	344.0	194.5	N.A.	198.9
1958	327.5	192.4	135.0	190.4
1959	329.5	185.4	144.2	181.4
1960	309.2	178.2	131.1	177.2
1961	303.1	171.3	131.8	168.4
1962	298.0	167.6	130.4	160.5
1963	289.2	163.8	125.4	153.7
1964	291.1	160.4	130.7	149.6
1965	287.1	156.6	130.5	148.1
1966	281.8	152.5	129.2	148.2
1967	275.8	149.7	126.2	147.9
1968	275.6	148.1	127.5	150.1
1969	279.9	145.8	134.1	144.7
1970	270.1	144.2	125.9	153.7
1971	264.2	142.5	121.7	152.7
1972	268.2	142.7	125.5	152.3
1973	277.7	142.1	135.6	149.9
1974	304.5	148.5	156.0	155.4
1975	335.7	159.5	176.2	154.2
1976	360.3	165.0	195.3	157.1
1977	404.5	174.8	229.7	160.3
1978	417.1	178.1	239.0	163.0
1979	476.4	201.2	275.1	168.5
1980	547.4	218.3	329.1	154.2

Source: U.S. Bureau of Labor Statistics, "Employment and Earnings"

SOURCES OF CAPITAL OF A GROUP OF PETROLEUM COMPANIES
(Millions of dollars)

Year	TOTAL FUNDS	INTERNAL FUNDS Amount	INTERNAL FUNDS Percent of Total	EXTERNAL FUNDS Amount	EXTERNAL FUNDS Percent of Total
1947	$ 2,903	$ 2,221	76.5%	$ 682	23.5%
1948	3,842	3,250	84.6	592	15.4
1949	3,612	2,971	82.3	641	17.7
1950	3,444	3,285	95.4	159	4.6
1951	4,163	3,847	92.4	316	7.6
1952	4,923	4,092	83.1	831	16.9
1953	5,111	4,591	89.8	520	10.2
1954	5,250	4,897	93.3	353	6.7
1955	5,949	5,429	91.3	520	8.7
1956	7,573	6,351	83.9	1,222	16.1
1957	7,747	6,536	84.4	1,211	15.6
1958	6,776	5,806	85.7	970	14.3
1959	6,452	6,211	96.3	241	3.7
1960	6,646	6,401	96.3	245	3.7
1961	7,541	6,892	91.4	649	8.6
1962	7,957	7,280	91.5	677	8.5
1963	8,635	7,710	89.3	925	10.7
1964	8,895	7,905	88.9	990	11.1
1965	9,877	8,681	87.9	1,196	12.1
1966	12,117	10,085	83.2	2,032	16.8
1967	13,473	10,682	79.3	2,791	20.7
1968	15,295	11,280	73.7	4,015	26.3
1969	14,713	11,715	79.6	2,998	20.4
1970	18,489	14,333	77.5	4,156	22.5
1971	20,823	15,660	75.2	5,163	24.8
1972	21,359	16,661	78.0	4,698	22.0
1973	28,910	24,097	83.4	4,813	16.6
1974	39,602	33,208	83.9	6,394	16.1
1975	35,042	24,737	70.6	10,305	29.4
1976	40,006	29,480	73.7	10,526	26.3
1977	43,147	34,379	79.7	8,768	20.3
1978	44,815	39,574	88.3	5,241	11.7
1979	73,435	64,633	88.0	8,802	12.0

Source: The Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

NET INCOME AS A PERCENT OF NET WORTH:
PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Autos and Trucks	20.7	25.4	30.2	32.5	17.6	18.7	19.4	18.0	29.8	14.6	16.4	9.3	16.9	16.9	13.2
Drugs Soaps, etc.	20.7	21.3	16.2	21.4	17.7	13.7	15.1	14.8	17.6	19.9	21.5	21.9	22.0	20.4	18.4
Office Equip.	26.7	24.3	18.4	19.3	16.9	14.3	13.2	14.7	16.7	17.5	18.0	13.7	14.4	14.2	16.1
Glass Products	17.6	15.5	19.8	24.4	15.2	14.6	14.9	16.2	20.6	17.7	15.6	11.9	16.7	13.4	11.1
Elect. Equip. &Electronics	19.9	20.3	17.3	22.5	16.0	14.8	14.9	13.9	13.1	11.8	13.9	12.4	14.4	11.4	10.0
Auto Parts	23.4	22.9	18.9	22.7	15.7	13.1	13.2	10.4	15.9	12.9	12.1	7.4	13.1	7.3	6.8
Chemical Prod.	17.2	16.9	17.1	21.4	16.3	13.5	13.2	14.4	17.5	15.5	14.0	11.1	14.7	12.4	11.8
Household Equip.	33.2	26.5	15.4	23.0	12.9	12.5	10.7	10.3	12.2	12.7	9.6	7.7	14.1	10.0	9.2
Aircraft and Space	—	2.9	8.2	14.3	9.1	17.9	20.1	27.1	24.3	21.4	20.0	14.1	9.0	6.6	4.4
Soft Drinks	22.6	17.9	16.5	15.6	12.6	12.0	12.6	12.4	14.3	14.3	14.5	14.4	17.1	16.8	15.6
Other Stove and Clay Prod.	17.8	18.2	13.7	18.5	14.9	12.5	11.8	13.2	16.5	16.0	13.2	11.9	14.6	12.1	11.1
Lumber	33.1	23.1	10.7	17.0	16.0	11.4	10.3	9.7	14.0	12.6	9.5	9.2	11.7	7.5	6.6
Paper and Allied Prod.	23.7	19.6	12.8	17.1	16.1	12.0	12.2	12.4	14.0	14.2	10.6	9.3	10.5	9.1	8.1
Paint and Allied Prod.	19.0	13.1	10.3	17.1	12.9	10.7	12.7	13.6	16.3	18.0	15.8	12.8	12.5	13.0	12.5
Baking	20.4	21.0	17.8	15.9	12.3	12.2	12.0	11.4	12.0	12.2	12.5	11.7	11.5	11.6	9.7
Machinery	17.0	18.6	12.4	14.2	14.9	14.1	12.9	11.7	11.6	15.2	13.7	7.9	9.8	9.9	8.9
Rubber and Allied Prod.	16.0	13.4	8.7	15.9	16.4	13.4	14.0	11.9	15.3	13.8	12.4	10.6	12.9	10.3	10.2
Printing and Publ.	19.9	14.3	14.7	14.5	11.8	11.0	10.5	10.9	13.0	13.8	14.0	11.3	12.8	13.9	11.9
Petroleum	15.9	21.6	13.6	15.1	16.7	14.5	14.7	13.8	14.1	14.6	13.7	9.9	10.0	10.3	10.4
Other Food Prod.	21.2	16.9	14.0	15.4	11.8	10.0	11.1	11.5	11.8	11.7	11.5	11.4	11.8	11.4	12.8
Other Metal Prod.	15.7	17.1	11.1	16.4	14.9	11.4	11.5	11.1	12.8	12.5	12.0	8.9	11.4	6.8	7.3
Brewing	26.4	18.4	22.1	15.1	11.6	10.8	10.8	8.2	8.7	7.7	7.4	6.8	7.8	7.7	9.5
Building, Heat, Plumb. Equip.	19.6	20.1	12.6	17.8	13.8	10.9	10.2	9.8	11.3	11.3	9.4	8.1	9.1	5.3	4.6
Dairy Prod.	15.2	13.0	15.5	13.9	11.0	10.4	11.2	12.4	12.1	12.4	11.9	11.9	11.8	11.3	11.0
Non Ferrous Metals	14.8	15.3	8.0	14.5	13.5	11.5	11.0	10.8	16.6	17.2	9.7	6.8	8.9	7.2	6.8
Furniture and Fixtures	17.1	18.3	10.9	18.7	13.1	10.1	9.8	9.5	12.9	14.2	7.8	8.6	10.5	7.9	7.1
Iron and Steel	11.3	13.9	11.6	15.3	12.3	8.8	11.6	9.4	15.2	13.9	13.2	8.2	8.4	7.8	6.4
Total Manufacturing	17.0	18.2	13.8	17.1	14.4	11.3	12.7	12.3	14.9	13.8	12.9	9.8	11.7	10.6	9.9
Total Mining	16.0	20.5	12.0	13.2	13.0	10.1	7.9	8.2	13.0	13.8	9.6	7.3	7.8	8.0	8.3
Total Trade	18.3	18.2	13.2	14.8	11.5	10.1	9.9	9.9	10.9	11.4	10.8	10.5	11.9	10.7	10.2

Source: First National City Bank

Section V
Table 4

NET INCOME AS A PERCENT OF NET WORTH:
PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975[r]
Autos & Trucks	19.4	19.6	19.9	23.4	17.8	12.0	16.6	13.8	5.8	15.0	17.2	17.6	6.1	5.7
Drugs & Medicine	17.8	18.7	19.8	22.1	22.5	20.3	19.8	17.7	18.8	19.0	19.8	21.4	21.0	20.4
Soap, Cosmetics	17.0	16.9	17.6	16.8	17.9	19.4	18.9	18.6	18.7	19.3	20.2	20.2	17.9	18.0
Office Eqpmt., Computers	17.2	16.0	17.9	18.7	18.1	17.8	19.0	17.4	13.9	12.5	13.8	16.7	16.3	5.9
Glass Products	11.6	11.6	12.1	13.5	12.7	11.1	11.9	12.2	9.0	11.1	12.5	12.9	10.6	9.3
Electr. Eqpmt. & Electronics	11.3	10.7	11.3	14.8	16.7	15.4	14.1	13.0	10.1	10.7	13.6	15.3	13.1	12.7
Auto Parts	10.2	11.4	12.0	13.4	14.0	11.4	12.6	13.0	8.9	10.4	13.5	14.4	10.4	9.6
Chemical Products	12.3	13.2	14.7	15.4	14.6	11.4	11.7	11.4	9.5	9.7	11.3	15.2	18.8	15.8
Household Appliances	11.5	12.8	13.9	15.0	15.0	14.7	14.0	13.5	11.9	12.1	15.4	15.6	5.3	6.2
Aerospace	12.9	11.7	12.9	15.4	15.7	13.4	13.9	11.4	6.7	6.3	8.9	11.7	13.8	11.7
Soft Drinks	16.6	17.9	20.7	21.1	22.0	23.3	22.7	22.5	22.7	23.1	22.1	22.0	19.0	20.6
Other Stone & Clay Products	9.0	9.1	10.6	9.9	9.2	7.3	8.9	9.3	7.0	8.7	10.8	11.9	9.1	8.2
Lumber & Wood Products	7.6	8.1	10.9	11.5	11.0	9.4	14.1	15.2	10.2	11.2	12.6	20.8	15.9	10.0
Paper & Allied Products	9.3	9.2	10.3	10.5	11.8	9.5	10.7	10.3	7.4	5.6	8.8	14.6	18.3	12.7
Paint & Allied Products	11.6	12.0	14.4	14.1	14.3	11.6	11.5	10.2	6.2	8.1	10.6	10.3	11.7	9.0
Baking	9.9	11.0	11.3	11.9	13.9	15.7	13.4	7.9	11.0	12.8	11.8	9.4	12.0	17.0
Machinery	9.9	9.7	11.9	14.4	16.9	14.7	13.5	12.9	10.5	10.3	10.6	12.7	12.2	11.6
Rubber & Allied Products	9.4	9.9	11.5	11.8	12.8	10.8	12.7	11.1	7.6	9.8	11.6	11.5	9.7	7.8
Printing & Publishing	10.5	12.4	14.0	16.9	17.9	15.4	14.9	14.8	12.5	12.6	13.8	15.4	14.5	12.9
Petroleum Prod'n & Refng.	10.6	11.5	11.6	11.9	12.6	12.8	13.1	11.9	11.0	11.2	10.8	15.6	19.6	13.9
Building, Heating, Plumbing Equipment	6.3	6.4	8.2	10.6	12.0	11.3	11.3	8.5	7.0	8.4	12.1	11.6	14.2	12.3
Other Food Products	12.5	12.1	12.7	12.6	13.3	12.3	12.7	12.1	12.8	12.3	14.2	14.8	14.4	14.1
Other Metal Products	9.0	9.3	10.4	12.9	14.1	13.8	13.3	12.5	10.4	8.9	10.4	12.9	14.0	13.0
Brewing	8.9	9.1	10.1	11.1	13.4	12.2	13.2	13.2	16.0	15.8	14.8	13.1	12.3	10.3
Dairy Products	10.5	11.2	12.2	12.5	12.6	11.8	11.7	11.8	12.0	12.6	12.8	13.0	13.2	14.3
Non Ferrous Metals	7.1	7.1	9.0	11.8	15.7	11.4	11.1	12.5	10.6	5.0	7.1	11.2	15.1	7.4
Furniture & Fixtures	7.8	8.1	11.1	13.0	14.3	11.9	11.3	12.4	8.4	11.9	12.5	13.0	8.2	7.0
Iron & Steel	5.4	7.3	9.2	9.6	9.4	7.4	8.5	7.4	4.6	4.6	6.1	9.8	17.1	10.0
Total Manufacturing	10.9	11.6	12.7	13.9	14.2	12.6	13.3	12.4	10.8	10.8	12.1	14.9	15.2	12.6
Total Mining	8.6	9.1	10.4	12.2	13.9	16.2	15.0	12.6	8.5	8.5	10.7	16.6	24.5	16.1
Total Trade	10.3	10.4	12.1	13.2	13.7	13.2	14.1	13.5	11.7	11.7	11.8	12.7	13.5	13.0

[r] Revised

Source: First National City Bank

April 1978

Section V
Table 4a

NET INCOME AS A PERCENT OF NET WORTH:
PETROLEUM, OTHER SELECTED INDUSTRY GROUPS, TOTAL MANUFACTURING AND TOTAL MINING

INDUSTRIAL GROUPS	1976	1977	1978	1979 (r)	1980 (p)
Autos & Trucks	18.3	20.8	17.4	10.5	−13.3
Drugs & Medicine	20.0	19.2	22.0	22.9	22.0
Soap, Cosmetics	18.3	19.7	20.9	19.9	20.4
Office Eqpmt., Computers	17.4	18.8	23.3	20.7	20.7
Glass Products	17.3	11.5	11.1	14.6	13.1
Electr. Eqpmt., & Electronics	16.2	16.7	17.5	17.3	18.2
Auto Parts	15.3	16.4	17.4	18.2	13.1
Chemical Products	16.1	14.3	14.9	17.3	15.8
Household Appliances	17.4	19.4	16.8	16.6	14.2
Aerospace	13.6	17.4	17.0	21.8	17.8
Soft Drinks	22.4	22.3	22.3	22.3	20.2
Other Stone & Clay products	10.6	12.2	17.2	14.5	9.6
Lumber & Wood Products	15.5	16.0	17.7	20.2	11.4
Paper & Allied Products	14.8	14.1	14.0	17.4	13.6
Paint & Allied Products	10.9	8.1	8.8	11.0	12.2
Baking	16.1	17.8	19.7	17.4	19.4
Machinery	13.6	15.0	16.5	18.3	15.9
Rubber & Allied Products	7.5	10.0	6.2	6.4	4.6
Printing & Publishing	13.9	16.8	21.2	19.4	18.5
Petroleum Prod'n. & Refng.	14.8	14.0	14.5	22.6	24.9
Building, Heating, Plumbing Equipment	21.0	20.4	21.8	26.0	25.4
Other Food Products	16.1	16.3	17.6	17.3	17.3
Other Metal Products	15.0	14.8	13.6	16.5	14.4
Brewing	11.5	10.5	10.1	12.5	12.4
Dairy Products	14.7	14.9	15.6	14.8	15.0
Non Ferrous Metals	8.5	8.0	9.4	18.6	18.5
Furniture & Fixtures	9.8	8.5	11.6	7.2	6.9
Iron & Steel	8.7	4.4	9.4	11.7	9.7
Total Manufacturing	15.0	14.9	15.9	18.4	16.6
Total Mining	16.5	8.5	8.2	19.8	23.2
Total Trade	14.7	15.0	15.3	15.7	14.1

(r) Revised
(p) Preliminary

Source: First National City Bank

September 1981

Section V
Table 4b

Section V
Table 5

DOMESTIC AND FOREIGN NET INCOME OF A GROUP OF PETROLEUM COMPANIES

	NET INCOME (MILLIONS OF DOLLARS)			PERCENT OF TOTAL	
Year	U.S.	Foreign	Total	U.S.	Foreign
1960	$1,887	$1,581	$3,468	54.4%	45.6%
1961	1,958	1,719	3,677	53.2	46.8
1962	2,044	1,963	4,007	51.0	49.0
1963	2,392	2,149	4,541	52.7	47.3
1964	2,556	2,156	4,712	54.2	45.8
1965	2,927	2,164	5,091	57.5	42.5
1966	3,438	2,214	5,652	60.8	39.2
1967	3,727	2,421	6,148	60.6	39.4
1968	3,913	2,751	6,664	58.7	41.3
1969	3,774	2,928	6,702	56.3	43.7
1970	3,609	3,029	6,638	54.4	45.6
1971	3,490	3,779	7,269	48.0	52.0
1972	3,656	3,204	6,860	53.3	46.7
1973	4,134	7,544	11,678	35.4	64.6
1974	6,401	9,970	16,371	39.1	60.9
1975	5,978	5,532	11,510	51.9	48.1
1976	7,535	5,564	13,099	57.5	42.5
1977	7,795	6,585	14,380	54.2	45.8
1977	8,336	6,681	15,017	55.5	44.5
1979	12,758	18,720	31,478	40.5	59.5

Source: Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

WORLD PETROLEUM INDUSTRY CAPITAL AND EXPLORATION EXPENDITURES
UNITED STATES versus FOREIGN
(Millions of U.S. dollars)

	CAPITAL EXPENDITURES					GEOLOGICAL & GEOPHYSICAL EXPENSES & LEASE RENTALS					COMBINED					
Year	United States	% of Total	Foreign	% of Total	World Total	United States	% of Total	Foreign	% of Total	World Total	United States	% of Total	Foreign	% of Total	World Total	Year
1947	2.825	69.8%	1,225	30.2%	4.050	250	78.1%	70	21.9%	320	3.075	70.4%	1.295	29.6%	4.370	1947
1948	3.350	67.7	1.600	32.3	4.950	300	75.0	100	25.0	400	3.650	68.2	1,700	31.8	5.350	1948
1949	3.000	60.9	1.925	39.1	4.925	325	76.5	100	23.5	425	3.325	62.1	2.025	37.9	5.350	1949
1950	2.925	66.1	1.500	33.9	4.425	300	70.6	125	29.4	425	3.225	66.5	1.625	33.5	4.850	1950
1951	3,625	68.1	1.700	31.9	5.325	400	72.7	150	27.2	550	4.025	68.5	1,850	31.5	5.875	1951
1952	4,400	65.2	2.350	34.8	6,750	500	74.1	175	25.9	675	4.900	66.0	2.525	34.0	7,425	1952
1953	5.025	66.3	2,550	33.7	7,575	575	76.7	175	23.3	750	5.600	67.3	2,725	32.7	8,325	1953
1954	5.350	66.3	2.725	33.7	8.075	600	75.0	200	25.5	800	5.950	67.0	2.925	33.0	8,875	1954
1955	5.600	65.5	2.950	34.5	8.550	625	71.4	250	28.6	875	6,225	66.0	3,200	34.0	9,425	1955
1956	6,050	60.3	3,975	39.7	10,025	700	70.0	300	30.0	1,000	6.750	61.2	4,275	38.8	11.025	1956
1957	6.400	56.1	5.000	43.9	11,400	700	65.1	375	34.9	1,075	7,100	56.9	5,375	43.1	12,475	1957
1958	5,300	49.5	5,400	50.5	10,700	650	61.9	400	38.1	1,050	5,950	50.6	5,800	49.4	11,750	1958
1959	5.272	47.7	5,775	52.3	11.050	650	58.0	470	42.0	1,120	5.925	48.7	6.245	51.3	12,170	1959
1960	5.175	49.2	5.350	50.8	10,525	625	57.6	460	42.4	1,085	5,800	50.0	5,810	50.0	11,610	1960
1961	5.100	48.9	5.325	51.1	10,425	600	58.8	420	41.2	1,020	5,700	49.8	5.745	50.2	11.445	1961
1962	5.725	51.5	5.385	48.5	11.110	575	57.5	425	42.5	1,000	6,300	52.1	5,800	47.9	12,100	1962
1963	5,475	49.1	5,675	50.9	11.150	600	57.1	450	42.9	1,050	6,075	49.8	6.125	50.2	12,200	1963
1964	6,100	49.7	6,175	50.3	12,275	650	57.5	480	42.5	1,130	6.750	50.4	6,655	49.6	13.405	1964
1965	6,375	48.4	6,800	51.6	13,175	610	51.7	570	48.3	1.180	6,985	48.7	7,370	51.3	14,355	1965
1966	7,125	48.6	7,550	51.4	14,675	650	58.6	460	41.4	1,110	7,775	49.3	8,010	50.7	15,785	1966
1967	7,650	49.1	7,925	50.9	15,575	615	51.7	575	48.3	1.190	8,265	49.3	8,500	50.7	16,765	1967
1968	8,350	46.6	9,550	53.4	17,900	715	53.8	615	46.2	1,330	9.065	47.1	10,165	52.9	19,230	1968
1969	8.175	44.5	10.200	55.5	18.375	725	52.5	655	47.5	1.380	8.900	45.1	10,855	54.9	19,755	1969
1970	8.225	40.9	11,900	59.1	20,125	665	49.6	675	50.4	1,340	8,890	41.4	12,575	58.6	21,465	1970
1971	7,250	33.3	14.550	66.7	21,800	715	51.3	680	48.7	1,395	7,965	34.3	15,230	65.7	23,195	1971
1972	9,050	36.3	15,900	63.7	24.950	740	48.1	800	51.9	1,540	9,790	37.0	16,700	63.0	26,490	1972
1973	10.640	35.5	19.355	64.5	29.995	850	50.0	850	50.0	1,700	11.490	36.3	20,205	63.7	31,695	1973
1974	16.625	38.0	27.075	62.0	43.700	1.130	51.7	1.055	48.3	2,185	17,755	38.7	28.130	61.3	45,885	1974

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry, Annual

April 1976

WORLD PETROLEUM INDUSTRY CAPITAL AND EXPLORATION EXPENDITURES
UNITED STATES versus FOREIGN
(Millions of U.S. dollars)

	CAPITAL EXPENDITURES					GEOLOGICAL & GEOPHYSICAL EXPENSES & LEASE RENTALS					COMBINED					
Year	United States	% of Total	Foreign	% of Total	World Total	United States	% of Total	Foreign	% of Total	World Total	United States	% of Total	Foreign	% of Total	World Total	Year
1975	17,725	35.7	31,900	64.3	49,625	1,195	51.4	1,130	48.6	2,325	18,920	36.4	33,030	63.6	51,950	1975
1976	22,085	38.9	34,640	61.1	56,725	1,375	54.2	1,160	45.8	2,535	23,460	39.6	35,800	60.4	59,260	1976
1977	22,400	36.4	39,180	63.6	61,580	1,645	48.5	1,750	51.5	3,395	24,045	37.0	40,930	63.0	64,975	1977
1978	24,475	35.8	43,900	64.2	68,375	1,975	48.9	2,060	51.1	4,035	26,450	36.5	45,960	63.5	72,410	1978
1979	32,200	39.4	49,425	60.6	81,625	2,600	48.8	2,725	51.2	5,325	34,800	40.0	52,150	60.0	86,950	1979

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry, Annual

SOURCES AND USES OF WORKING CAPITAL OF A GROUP OF PETROLEUM COMPANIES
(Million dollars)

	FUNDS AVAILABLE FROM					FUNDS USED FOR					
Year	Cash Earnings	Long Term Debt Issued	Stock Issued	Other	Total	Capital Expenditures	Dividends	Long Term Debt Repaid	Other	Total	Year
1947	2,160	476	206	61	2,903	2,076	455	62	135	2,728	1947
1948	3,099	476	116	151	3,842	2,591	508	101	366	3,566	1948
1949	2,704	603	38	267	3,612	2,263	603	144	224	3,234	1949
1950	3,080	152	7	205	3,444	1,894	724	224	188	3,030	1950
1951	3,706	258	58	141	4,163	2,540	884	144	103	3,671	1951
1952	3,902	701	130	190	4,923	3,100	939	143	255	4,437	1952
1953	4,379	511	9	212	5,111	3,378	1,019	148	261	4,806	1953
1954	4,592	344	9	305	5,250	3,669	1,041	196	181	5,087	1954
1955	5,200	474	46	229	5,949	3,905	1,163	217	295	5,580	1955
1956	5,866	1,166	56	485	7,573	4,988	1,324	249	484	7,045	1956
1957	6,318	714	497	218	7,747	5,453	1,414	431	219	7,517	1957
1958	5,531	908	62	275	6,776	4,356	1,419	543	174	6,492	1958
1959	5,892	215	26	319	6,452	4,266	1,468	327	209	6,270	1959
1960	6,174	240	5	227	6,646	4,241	1,505	250	326	6,322	1960
1961	6,388	587	62	504	7,541	4,560	1,582	578	332	7,052	1961
1962	6,869	504	173	411	7,957	5,198	1,761	516	603	8,078	1962
1963	7,492	628	297	218	8,635	4,926	1,920	462	695	8,003	1963
1964	7,719	570	420	186	8,895	5,849	2,104	499	653	9,105	1964
1965	8,425	1,085	111	256	9,877	6,421	2,289	407	585	9,702	1965
1966	9,292	1,848	184	793	12,117	7,731	2,479	807	744	11,761	1966
1967	10,080	2,328	463	602	13,473	8,734	2,699	644	548	12,625	1967
1968	10,958	3,622	393	322	15,295	9,690	2,950	992	829	14,461	1968
1969	11,238	2,732	266	477	14,713	9,766	3,140	1,841	798	15,545	1969
1970	13,371	3,725	431	962	18,489	11,393	3,711	1,905	851	17,860	1970
1971	14,775	4,637	526	885	20,823	12,921	3,922	1,975	1,117	19,935	1971
1972	14,801	4,448	250	1,860	21,359	13,190	3,860	3,207	886	21,143	1972
1973	21,230	4,381	432	2,867	28,910	14,637	4,122	3,698	952	23,409	1973
1974	28,836	6,275	119	4,372	39,602	22,902	4,772	4,124	1,016	32,814	1974

Source: The Chase Manhattan Bank, Financial Analysis of a Group of Petroleum Companies

SOURCES AND USES OF WORKING CAPITAL OF A GROUP OF PETROLEUM COMPANIES
(Million dollars)

	FUNDS AVAILABLE FROM					FUNDS USED FOR					
Year	Cash Earnings	Long Term Debt Issued	Stock Issued	Other[1]	Total	Capital Expenditures	Dividends	Long Term Debt Repaid	Other[2]	Total	Year
1975	23,570	10,134	171	1,167	35,042	25,048	4,947	5,336	1,843	37,174	1975
1976	26,767	10,448	78	2,713	40,006	26,826	5,346	5,172	973	38,317	1976
1977	29,964	8,334	434	4,415	43,147	28,001	6,158	5,879	1,697	41,735	1977
1978	34,322	5,150	91	5,252	44,815	29,893	6,953	6,776	1,872	45,494	1978
1979	57,456	8,697	105	7,177	73,435	43,812	8,333	7,652	3,217	63,014	1979

---

(1) Other includes sales of assets and other transactions.

(2) Other includes investments, advancements and preferred and common stock retired.

Source: The Chase Manhattan Bank, "Financial Analysis of a Group of Petroleum Companies"

Table 8

DOMESTIC AND FOREIGN CAPITAL EXPENDITURES OF THE WORLD PETROLEUM INDUSTRY

	PRODUCTION					TRANSPORTATION					REFINERIES & CHEMICAL PLANTS				
	U.S.		FOREIGN		TOTAL	U.S.		FOREIGN		TOTAL	U.S.		FOREIGN		TOTAL
Year	Million $	% of Total	Million $	% of Total	Million $	Million $	% of Total	Million $	% of Total	Million $	Million $	% of Total	Million $	% of Total	Million $
1947	1,750	78.7	475	21.3	2,225	295	48.8	310	51.2	605	400	64.0	225	36.0	625
1948	2,100	75.4	685	24.6	2,785	310	54.9	255	45.1	565	600	59.7	405	40.3	1,005
1949	2,000	72.2	770	27.8	2,770	250	38.2	405	61.8	655	420	46.9	475	53.1	895
1950	2,100	81.6	475	18.4	2,575	215	33.3	430	66.7	645	275	42.3	375	57.7	650
1951	2,650	82.2	575	17.8	3,225	285	41.0	410	59.0	695	325	44.8	400	55.2	725
1952	3,200	78.2	890	21.8	4,090	385	43.3	505	56.7	890	470	49.0	490	51.0	960
1953	3,525	79.8	890	20.2	4,415	425	41.1	610	58.9	1,035	675	52.1	620	47.9	1,295
1954	3,800	79.7	970	20.3	4,770	325	30.5	740	69.5	1,065	800	57.8	585	42.2	1,385
1955	4,100	78.7	1,110	21.3	5,210	225	25.6	655	74.4	880	835	59.0	580	41.0	1,415
1956	4,475	72.2	1,725	27.8	6,200	225	22.5	775	77.5	1,000	825	53.2	725	46.8	1,550
1957	4,525	67.5	2,180	32.5	6,705	345	24.6	1,060	75.4	1,405	950	49.2	980	50.8	1,930
1958	3,650	65.5	1,925	34.5	5,575	350	18.7	1,520	81.3	1,870	725	41.0	1,045	59.0	1,770
1959	3,850	65.5	2,030	34.5	5,880	260	13.1	1,720	86.9	1,980	525	34.0	1,020	66.0	1,545
1960	3,735	66.6	1,875	33.4	5,610	265	16.0	1,395	84.0	1,660	560	35.2	1,030	64.8	1,590
1961	3,525	65.5	1,855	34.5	5,380	230	16.8	1,140	83.2	1,370	685	35.1	1,265	64.9	1,950
1962	4,000	70.6	1,665	29.4	5,665	340	22.0	1,205	78.0	1,545	660	31.8	1,415	68.2	2,075
1963	3,650	70.6	1,520	29.4	5,170	415	26.4	1,155	73.6	1,570	600	25.4	1,765	74.6	2,365
1964	3,960	71.2	1,605	28.8	5,565	340	17.8	1,570	82.2	1,910	675	30.8	1,515	69.2	2,190
1965	3,760	65.0	2,025	35.0	5,785	265	14.9	1,510	85.1	1,775	1,125	40.3	1,665	59.7	2,790
1966	3,770	66.8	1,870	33.2	5,640	300	14.6	1,755	86.4	2,055	1,575	39.3	2,435	60.7	4,010
1967	4,025	67.1	1,975	32.9	6,000	400	18.7	1,740	81.3	2,140	1,600	38.6	2,550	61.4	4,150
1968	4,925	66.0	2,535	34.0	7,460	475	17.2	2,280	82.8	2,755	1,450	32.7	2,980	67.3	4,430
1969	4,750	63.0	2,790	37.0	7,540	400	13.3	2,600	86.7	3,000	1,525	33.7	2,995	66.3	4,520
1970	4,335	60.0	2,895	40.0	7,230	550	15.9	2,915	84.1	3,465	1,625	29.4	3,900	70.6	5,525
1971	3,385	46.9	3,830	53.1	7,215	675	16.4	3,435	83.6	4,110	1,550	24.6	4,740	75.4	6,290
1972	5,915	58.5	4,190	41.5	10,105	425	8.5	4,580	91.5	5,005	1,350	21.4	4,955	78.6	6,305
1973	7,440	57.6	5,485	42.4	12,925	550	7.1	7,230	92.9	7,780	1,475	24.4	4,565	75.6	6,040
1974	11,450	58.6	8,085	41.4	19,535	1,660	14.1	9,760	85.9	11,360	2,600	26.8	7,115	73.2	9,715

	MARKETING					OTHER CAPITAL EXPENDITURES					TOTAL CAPITAL EXPENDITURES				
	U.S.		FOREIGN		TOTAL	U.S.		FOREIGN		TOTAL	U.S.		FOREIGN		TOTAL
Year	Million $	% of Total	Million $	% of Total	Million $	Million $	% of Total	Million $	% of Total	Million $	Million $	% of Total	Million $	% of Total	Million $
1947	300	63.2	175	36.8	475	80	66.7	40	33.3	120	2,825	69.8	1,225	30.2	4,050
1948	225	57.7	165	42.3	390	115	56.1	90	43.9	205	3,350	67.7	1,600	32.3	4,950
1949	240	52.7	215	47.3	455	90	60.0	60	40.0	150	3,000	60.9	1,925	39.1	4,925
1950	275	60.4	180	39.6	455	60	60.0	40	40.0	100	2,925	66.1	1,500	33.9	4,425
1951	300	55.0	245	45.0	545	65	48.1	70	51.9	135	3,625	68.1	1,700	31.9	5,325
1952	280	42.7	375	57.3	655	65	41.9	90	58.1	155	4,400	65.2	2,350	34.8	6,750
1953	325	47.4	360	52.6	685	75	51.7	70	48.3	145	5,025	66.3	2,550	33.7	7,575
1954	350	47.6	385	52.4	735	75	62.5	45	37.5	120	5,350	66.3	2,725	33.7	8,075
1955	375	41.2	535	58.8	910	65	48.1	70	51.9	135	5,600	65.5	2,950	34.5	8,550
1956	450	39.6	685	60.4	1,135	75	53.6	65	46.4	140	6,050	60.3	3,975	39.7	10,025
1957	475	40.1	710	59.9	1,185	105	60.0	70	40.0	175	6,400	56.1	5,000	43.9	11,400
1958	400	34.9	745	65.1	1,145	175	51.5	165	48.5	340	5,300	49.5	5,400	50.5	10,700
1959	450	33.7	885	66.3	1,335	190	61.3	120	38.7	310	5,275	47.7	5,775	52.3	11,050
1960	475	33.3	950	66.7	1,425	140	58.3	100	41.7	240	5,175	49.2	5,350	50.8	10,525
1961	525	36.1	930	63.9	1,455	135	50.0	135	50.0	270	5,100	48.9	5,325	51.1	10,425
1962	600	37.9	985	62.1	1,585	125	54.3	105	45.7	230	5,725	51.6	5,375	48.4	11,100
1963	650	37.5	1,085	62.5	1,735	160	51.6	150	48.4	310	5,475	49.1	5,675	50.9	11,150
1964	850	38.8	1,340	61.2	2,190	275	65.5	145	34.5	420	6,100	49.7	6,175	50.3	12,275
1965	1,000	41.2	1,430	58.8	2,430	225	57.0	170	43.0	395	6,375	48.4	6,800	51.6	13,175
1966	1,100	45.6	1,310	54.4	2,410	380	67.9	180	32.1	560	7,125	48.6	7,550	51.4	14,675
1967	1,250	46.2	1,455	53.8	2,705	375	64.7	205	35.3	580	7,650	49.1	7,925	50.9	15,575
1968	1,150	43.2	1,515	56.8	2,665	350	59.3	240	40.7	590	8,350	46.7	9,550	53.3	17,900
1969	1,250	44.6	1,555	55.4	2,805	250	49.0	260	51.0	510	8,175	44.5	10,200	55.5	18,375
1970	1,450	45.0	1,770	55.0	3,220	265	38.7	420	61.3	685	8,225	38.9	11,900	59.1	20,125
1971	1,350	39.9	2,030	60.1	3,380	290	36.0	515	64.0	805	7,250	33.3	14,550	66.7	21,800
1972	1,100	38.9	1,725	61.1	2,825	260	36.3	450	63.4	710	9,050	36.3	15,900	63.7	24,950
1973	850	34.3	1,630	65.7	2,480	325	42.2	445	57.8	770	10,640	35.5	19,355	64.5	29,995
1974	650	29.3	1,565	70.7	2,215	325	37.1	550	62.9	875	16,625	38.0	27,075	62.0	43,700

Source: The Chase Manhattan Bank

April 1976

DOMESTIC AND FOREIGN CAPITAL EXPENDITURES OF THE WORLD PETROLEUM INDUSTRY

	PRODUCTION					TRANSPORTATION					REFINERIES & CHEMICAL PLANTS				
	U.S.		FOREIGN		TOTAL	U.S.		FOREIGN		TOTAL	U.S.		FOREIGN		TOTAL
Year	Million $	% of Total	Million $	% of Total	Million $	Million $	% of Total	Million $	% of Total	Million $	Million $	% of Total	Million $	% of Total	Million $
1975	9,380	48.7	9,875	51.3	19,255	3,725	24.5	11,510	75.5	15,235	3,600	30.3	8,270	69.7	11,870
1976	13,460	52.2	12,315	47.8	25,775	3,900	24.0	12,350	76.0	16,250	3,775	33.1	7,635	66.9	11,410
1977	15,180	46.8	17,280	53.2	32,460	2,300	22.2	8,060	77.8	10,360	3,700	25.2	10,965	74.8	14,665
1978	17,650	46.8	20,055	53.2	37,705	1,350	15.5	7,380	84.5	8,730	4,050	23.4	13,275	76.6	17,325
1979	24,600	50.1	24,465	49.9	49,065	1,450	18.1	6,575	81.9	8,025	4,625	24.3	14,385	75.7	19,010

	MARKETING					OTHER CAPITAL EXPENDITURES					TOTAL CAPITAL EXPENDITURES				
	U.S.		FOREIGN		TOTAL	U.S.		FOREIGN		TOTAL	U.S.		FOREIGN		TOTAL
Year	Million $	% of Total	Million $	% of Total	Million $	Million $	% of Total	Million $	% of Total	Million $	Million $	% of Total	Million $	% of Total	Million $
1975	650	30.1	1,510	69.9	2,160	370	33.5	735	66.5	1,105	17,725	35.7	31,900	64.3	49,625
1976	625	28.7	1,555	71.3	2,180	325	29.3	785	70.7	1,110	22,085	38.9	34,640	61.1	56,725
1977	775	29.0	1,895	71.0	2,670	445	31.2	980	68.8	1,425	22,400	36.4	39,180	63.6	61,580
1978	950	29.3	2,290	70.7	3,240	475	34.5	900	65.5	1,375	24,475	35.8	43,900	64.2	68,375
1979	975	26.0	2,775	74.0	3,750	550	31.0	1,225	69.0	1,775	32,200	39.4	49,425	60.6	81,625

Source: The Chase Manhattan Bank, Capital Investments of the World Petroleum Industry

ESTIMATED U.S. EXPLORATION & DEVELOPMENT EXPENDITURES: CHASE MANHATTAN BANK GROUP AND ALL OTHER COMPANIES
(Millions of Dollars)

Year	Total Exploration and Development Expenditures	Expenditures by Chase Manhattan Group	Percent of Total Expenditures	Expenditures by All Other Companies	Percent of Total Expenditures
1947	$ 1,950	$ 991	50.8	$ 959	49.2
1948	2,300	1,318	57.3	982	42.7
1949	2,215	1,217	54.9	998	45.1
1950	2,325	1,157	49.8	1,168	50.2
1951	2,975	1,620	54.5	1,355	45.5
1952	3,625	1,855	51.2	1,770	48.8
1953	3,975	2,014	50.7	1,961	49.3
1954	4,300	2,180	50.7	2,120	49.3
1955	4,675	2,383	51.0	2,292	49.0
1956	5,075	2,621	51.6	2,454	48.4
1957	5,100	2,673	52.4	2,427	47.6
1958	4,225	2,241	53.0	1,984	47.0
1959	4,350	2,455	56.4	1,895	43.6
1960	4,200	2,412	57.4	1,788	42.6
1961	4,000	2,417	60.4	1,583	39.6
1962	4,425	2,848	64.4	1,577	35.6
1963	4,125	2,452	59.4	1,673	40.6
1964	4,450	2,817	63.3	1,633	36.7
1965	4,210	2,847	67.6	1,363	32.4
1966	4,250	2,990	70.4	1,260	29.6
1967	4,365	3,212	73.6	1,153	26.4
1968	5,390	4,087	75.8	1,303	24.2
1969	5,250	3,768	71.8	1,482	28.2
1970	4,775	3,119	65.3	1,656	34.7
1971	3,900	2,740	70.3	1,160	29.7
1972	6,480	4,225	65.2	2,255	34.8
1973	8,140	5,275	64.8	2,865	35.2
1974	12,355	8,550	69.2	3,805	30.8
1975	10,250	7,007	68.4	3,243	31.6
1976	14,510	8,711	60.0	5,799	40.0
1977	16,500	10,159	61.6	6,341	38.4
1978	19,300	11,378	59.0	7,922	41.0
1979	26,750	20,616	77.1	6,134	22.9

Source: The Chase Manhattan Bank, *Capital Investments of the World Petroleum Industry* and *Financial Analysis of a Group of Petroleum Companies*

U.S. ESTIMATED EXPENDITURES FOR EXPLORATION DEVELOPMENT AND PRODUCTION, MILLION DOLLARS(1)

	1973	1974	1975	1976	1977	1978	1979
Exploration Expenditures							
Drilling and equipping wells	944.2	1,580.5	2,124.2	2,467.1	3,220.8	4,098.3	5,619.2
Acquiring undeveloped acreage	3,552.0	5,774.0	1,614.5	3,024.3	2,579.5	2,885.4	7,036.5
Land dept. leasing and scouting	76.5	90.6	113.4	126.3	164.1	163.6	223.5
Geological and geophysical	399.5	567.6	652.8	692.3	833.3	1,028.7	1,218.2
Lease rental	150.7	177.8	204.7	206.7	245.6	285.3	311.6
Test hole contributions	13.8	8.9	16.9	21.7	32.7	24.5	23.0
Other, incl. direct overhead	106.0	168.6	242.0	240.6	305.2	393.5	523.5
General and administrative	203.6	290.9	341.7	404.8	413.5	488.8	661.7
TOTAL EXPLORATION(3)	5,446.2	8,658.8	5,310.3	7,183.9	7,794.9	9,367.9	15,617.2
Development Expenditures							
Drilling and equipping wells	1,766.8	2,265.2	3,354.6	4,154.4	5,712.9	6,838.7	7,972.5
Lease equipment	572.2	824.1	1,499.6	1,486.8	1,607.9	2,175.0	2,146.0
Acquiring producing acreage	183.1	474.0	303.4	381.4	382.8	450.1	5,511.3
Improved recovery programs	352.5	625.4	928.9	378.4	461.4	639.3	528.3
Other, incl. direct overhead	(2)	(2)	(2)	978.9	672.3	467.5	544.3
General and administrative	164.6	224.4	336.1	354.8	375.7	440.1	601.2
TOTAL DEVELOPMENT(3)	3,039.3	4,413.1	6,422.6	7,734.8	9,212.9	11,010.7	17,303.6
Production Expenditures							
Direct operating expenditures	2,593.6	3,246.4	3,952.9	4,507.4	5,277.9	6,152.2	7,295.3
Taxes, excl. income tax	924.6	1,534.1	1,746.1	1,897.9	2,098.9	2,379.0	2,750.4
General and administrative	496.8	601.4	768.8	865.5	905.2	1,069.8	1,181.3
Other indirect expenses	193.5	252.1	358.0	369.1	435.6	393.6	538.6
TOTAL PRODUCTION(3)	4,208.5	5,634.2	6,825.8	7,639.9	8,717.4	9,994.6	11,765.6
TOTAL EXPENDITURES(3)	12,694.2	18,706.1	18,558.7	22,558.7	25,725.1	30,373.2	44,686.4

(1) Data not available prior to 1973.
(2) Included in improved recovery programs before 1976.
(3) Totals do not add due to rounding.

Source: U.S. Department of Commerce, Bureau of Census: Annual Survey of Oil and Gas.

ENVIRONMENTAL PROTECTION EXPENDITURES OF THE PETROLEUM INDUSTRY WITHIN THE U.S. (1)

	YEAR										
	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	TOTAL
TABLE II - TOTAL EXPENDITURES											
1. Air	$320	$571	$550	$737	$932	$1,039	$1,216	$1,188	$1,349	$1,616	$9,518
2. Water	259	415	379	402	530	629	822	950	884	1,001	6,271
3. Land and other	60	101	91	100	150	456	336	383	194	203	2,074
TOTAL	$639	$1,087	$1,020	$1,239	$1,612	$2,124	$2,374	$2,521	$2,427	$2,820	$17,863
TABLE III - CAPITAL EXPENDITURES											
1. Air	$181	$391	$305	$436	$527	$601	$536	$339	$429	$561	$4,306
2. Water	163	224	184	194	271	356	411	434	340	394	2,971
3. Land and other	34	57	51	52	97	396	269	184	89	92	1,321
TOTAL	$378	$672	$540	$682	$895	$1,353	$1,216	$957	$858	$1,047	$8,598
TABLE IV - ADMINISTRATIVE, OPERATING, AND MAINTENANCE EXPENDITURES											
1. Air	$108	$143	$198	$251	$352	$389	$635	$792	$864	$997	$4,729
2. Water	92	185	187	201	249	262	401	502	532	594	3,205
3. Land and other	24	41	37	43	50	55	63	197	101	106	717
TOTAL	$224	$369	$422	$495	$651	$706	$1,099	$1,491	$1,497	$1,697	$8,651
TABLE V - RESEARCH AND DEVELOPMENT EXPENDITURES											
1. Air	$31	$37	$47	$50	$53	$49	$45	$57	$56	$58	$483
2. Water	4	6	8	7	10	11	10	14	12	13	95
3. Land and other	2	3	3	5	3	5	4	2	4	5	36
TOTAL	$37	$46	$58	$62	$66	$65	$59	$73	$72	$76	$614

(1) Totals reported are sums of the expenditures reported to API, not total expenditures of the industry.

Source: American Petroleum Institute, Environmental Expenditures of the United States Petroleum Industry 1970-1979.

SECTION VI. PRICES

Table 1. Average Annual Wellhead Price of United States Crude Oil, Current and Constant 1967 Dollars
Table 2. Average Annual Wellhead Price of United States Natural Gas, Current and Constant 1967 Cents
Table 3. Trend of Wholesale Prices of Commodities Utilized in the Production of Petroleum
Table 4. Trends of Regular Grade Gasoline Prices vs. Prices of Other Consumer Goods and Services
Table 5. U.S. Annual Average Retail Price of Number 2 Home Heating Oil
Table 6. U.S. Natural Gas Liquids — Average Annual Price at Natural Gas Processing Plants
Table 7. Total Dollar Value of United States Crude Oil and Natural Gas at the Wellhead
Table 8. U.S. Average Wellhead Value Per Barrel of Crude Oil by State
Table 9. U.S. Average Wellhead Value of Natural Gas by State
Table 10. Posted Prices of Key Foreign Crude Oils
Table 11. Official Government Selling Prices of Key Foreign Crude Oils
Table 12. Average U.S. Retail Gasoline Prices for Selected Cities
Table 13. Cost of U.S. Petroleum Imports

AVERAGE ANNUAL WELLHEAD PRICE OF UNITED STATES CRUDE OIL CURRENT AND CONSTANT 1967 DOLLARS
(U.S. dollars per U.S. barrel of 42 gallons)

Year	Price in Current Dollars	Producer Price Index All Commodities[1] (1967 = 100)	Price in 1967 Constant Dollars
1947	$1.93	76.5	$2.52
1948	2.60	82.8	3.14
1949	2.54	78.7	3.23
1950	2.51	81.8	3.07
1951	2.53	91.1	2.78
1952	2.53	88.6	2.86
1953	2.68	87.4	3.07
1954	2.78	87.6	3.17
1955	2.77	87.8	3.15
1956	2.79	90.7	3.08
1957	3.09	93.3	3.31
1958	3.01	94.6	3.18
1959	2.90	94.8	3.06
1960	2.88	94.9	3.03
1961	2.89	94.5	3.06
1962	2.90	94.8	3.06
1963	2.89	94.5	3.06
1964	2.88	94.7	3.04
1965	2.86	96.6	2.96
1966	2.88	99.8	2.89
1967	2.92	100.0	2.92
1968	2.94	102.5	2.87
1969	3.09	106.5	2.90
1970	3.18	110.4	2.88
1971	3.39	113.9	2.98
1972	3.39	119.1	2.85
1973	3.89	134.7	2.89
1974	6.74	160.1	4.21
1975	7.56	174.9	4.32
1976	8.14	182.9	4.45
1977	8.57	194.2	4.41
1978	8.96	209.3	4.28
1979	12.51	235.6	5.31
1980[p]	21.19	268.7	7.89

[p] Preliminary

[1] For 1976 and prior years figures are for Wholesale Price Index

Source: Current Dollar Price, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Dollar Price computed by American Petroleum Institute

Section VI
Table 2

AVERAGE ANNUAL WELLHEAD PRICE OF UNITED STATES NATURAL GAS CURRENT AND CONSTANT 1967 CENTS
(U.S. cents per thousand cubic feet)

Year	Price in Current Cents	Producer Price Index[2] All Commodities (1967 = 100)	Price in 1967 Constant Cents
1947	6.0	76.5	7.8
1948	6.5	82.8	7.9
1949	6.3	78.7	8.0
1950	6.5	81.8	7.9
1951	7.3	91.1	8.0
1952	7.8	88.6	8.8
1953	9.2	87.4	10.5
1954	10.1	87.6	11.5
1955	10.4	87.8	11.8
1956	10.8	90.7	11.9
1957	11.3	93.3	12.1
1958	11.9	94.6	12.6
1959	12.9	94.8	13.6
1960	14.0	94.9	14.8
1961	15.1	94.5	16.0
1962	15.5	94.8	16.4
1963	15.8	94.5	16.7
1964	15.4[1]	94.7	16.3
1965	15.6	96.6	16.1
1966	15.7	99.8	15.7
1967	16.0	100.0	16.0
1968	16.4	102.5	16.0
1969	16.7	106.5	15.7
1970	17.1	110.4	15.5
1971	18.2	113.9	16.0
1972	18.6	119.1	15.6
1973	21.6	134.7	16.0
1974	30.4	160.1	19.0
1975	44.5	174.9	25.4
1976	58.0	182.9	31.7
1977	79.0	194.2	40.7
1978	90.5	209.3	43.2
1979	117.8	235.6	50.0
1980(p)	149.6	268.7	55.7

(p) Preliminary

[1] For 1964 and prior years, volumes were reported on the basis of 14.65 p.s.i.
For 1965 and subsequent years, volumes were reported on the basis of 14.73 p.s.i.

[2] For 1976 and prior years, figures are for Wholesale Price Index.

Sources: Current Price, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Constant Price computed by the American Petroleum Institute

Section VI
Table 3

TREND OF WHOLESALE PRICES OF COMMODITIES UTILIZED IN THE PRODUCTION OF PETROLEUM

(1967 = 100)

Year	Oil Field Machinery and Tools	Percent Annual Change	Line Pipe Carbon	Percent Annual Change	Oil Well Casing Carbon	Percent Annual Change	Oil Well Casing Alloy	Percent Annual Change
1947	54.9	–	N.A.	–	N.A.	–	N.A.	–
1948	59.5	+ 8.4%	N.A.	–	N.A.	–	N.A.	–
1949	62.9	+ 5.7	N.A.	–	N.A.	–	N.A.	–
1950	64.3	+ 2.2	N.A.	–	N.A.	–	N.A.	–
1951	70.8	+10.1	N.A.	–	N.A.	–	N.A.	–
1952	70.9	+ 0.1	N.A.	–	N.A.	–	N.A.	–
1953	73.9	+ 4.2	N.A.	–	N.A.	–	N.A.	–
1954	76.5	+ 3.5	76.0	–	69.2	–	66.0	–
1955	79.7	+ 4.2	80.6	+ 6.1%	72.8	+ 5.2%	70.4	+ 6.7%
1956	84.7	+ 6.3	91.9	+14.0	77.7	+ 6.7	77.7	+10.4
1957	90.5	+ 6.8	102.2	+11.2	86.2	+10.9	87.9	+13.1
1958	91.0	+ 0.6	105.5	+ 3.2	89.8	+ 4.2	91.6	+ 4.2
1959	91.1	+ 0.1	105.1	– 0.4	91.6	+ 2.0	93.4	+ 2.0
1960	91.2	+ 0.1	104.1	– 1.0	91.6	0	93.4	0
1961	92.5	+ 1.4	102.9	– 1.2	89.5	– 2.3	91.3	– 2.3
1962	93.8	+ 1.4	103.5	+ 0.6	88.0	– 1.7	89.7	– 1.8
1963	93.3	– 0.5	105.9	+ 2.3	88.8	+ 0.9	90.6	+ 1.0
1964	94.8	+ 1.6	103.6	– 2.2	91.9	+ 3.5	93.4	+ 3.1
1965	95.2	+ 0.4	97.9	– 5.5	96.2	+ 4.7	97.9	+ 4.8
1966	96.5	+ 1.4	97.9	0	96.2	0	97.9	0
1967	100.0	+ 3.6	100.0	+ 2.1	100.0	+ 4.0	100.0	+ 2.1
1968	106.4	+ 6.4	104.0	+ 4.0	101.5	+ 1.5	102.5	+ 2.5
1969	112.7	+ 5.9	109.2	+ 5.0	104.5	+ 3.0	106.4	+ 3.8
1970	118.7	+ 5.3	113.2	+ 3.7	109.1	+ 4.4	111.2	+ 4.5
1971	122.6	+ 3.3	124.7	+10.2	120.7	+10.6	122.7	+10.3
1972	127.3	+ 3.8	133.7	+ 7.2	128.4	+ 6.4	131.1	+ 6.8
1973	133.2	+ 4.6	139.1	+ 4.0	133.2	+ 3.7	136.3	+ 4.0
1974	157.8	+18.5	189.8	+36.4	170.7	+28.2	181.3	+33.0

N.A. Not available

Source: U.S. Bureau of Labor Statistics, Wholesale Price Index

TREND OF WHOLESALE PRICES OF COMMODITIES UTILIZED IN THE PRODUCTION OF PETROLEUM
(1967 = 100)

Year	Oil Field Machinery and Tools	Percent Annual Change	Line Pipe Carbon	Percent Annual Change	Oil Well Casing Carbon	Percent Annual Change	Oil Well Casing Alloy	Percent Annual Change
1975	196.3	+24.4	226.9	+19.5	211.5	+23.9	220.1	+21.4
1976	217.7	+10.9	234.6	+ 3.4	223.1	+ 5.5	239.2	+ 8.7
1977	236.6	+ 8.7	260.5	+11.8	244.3	+ 9.5	270.0	+12.9
1978	261.6	+10.6	296.6	+13.9	271.6	+11.2	299.6	+11.0
1979	289.6	+10.7	303.4	+ 2.3	285.2	+ 5.0	316.9	+ 5.7
1980	335.5	+15.9	336.2	+10.8	326.9	+14.6	366.9	+15.8

Source: U.S. Bureau of Labor Statistics, Producer Price Index.

TREND OF REGULAR GRADE GASOLINE PRICES vs. PRICES OF OTHER CONSUMER GOODS AND SERVICES

Year	RETAIL PRICE OF REGULAR GRADE GASOLINE			PRICE INDEXES OF SOME OTHER CONSUMER ITEMS					Year
	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Reading and Recreation	
	CENTS PER GALLON			INDEX: 1967 = 100					
1947	16.93	6.18	23.11	66.9	70.6	61.1	78.2	68.7	1947
1948	19.54	6.34	25.88	72.1	76.6	65.1	83.3	72.2	1948
1949	20.27	6.52	26.79	71.4	73.5	68.0	80.1	74.9	1949
1950	20.08	6.68	26.76	72.1	74.5	70.4	79.0	74.4	1950
1951	20.31	6.84	27.15	77.8	82.8	73.2	86.1	76.6	1951
1952	20.04	7.32	27.36	79.5	84.3	76.2	85.3	76.9	1952
1953	21.28	7.41	28.69	80.1	83.0	80.3	84.6	77.7	1953
1954	21.56	7.48	29.04	80.5	82.8	83.2	84.5	76.9	1954
1955	21.42	7.65	29.07	80.2	81.6	84.3	84.1	76.7	1955
1956	21.57	8.36	29.93	81.4	82.2	85.9	85.8	77.8	1956
1957	22.11	8.85	30.96	84.3	84.9	87.5	87.3	80.7	1957
1958	21.47	8.91	30.38	86.6	88.5	89.1	87.5	83.9	1958
1959	21.18	9.31	30.49	87.3	87.1	90.4	88.2	85.3	1959
1960	20.99	10.14	31.13	88.7	88.0	91.7	89.6	87.3	1960
1961	20.53	10.23	30.76	89.6	89.1	92.9	90.4	89.3	1961
1962	20.36	10.28	30.64	90.6	89.9	94.0	90.9	91.3	1962
1963	20.11	10.31	30.42	91.7	91.2	95.0	91.9	92.8	1963
1964	19.98	10.37	30.35	92.9	92.4	95.9	92.7	95.0	1964
1965	20.70	10.45	31.15	94.5	94.4	96.9	93.7	95.9	1965
1966	21.57	10.51	32.08	97.2	99.1	98.2	96.1	97.5	1966
1967	22.55	10.61	33.16	100.0	100.0	100.0	100.0	100.0	1967
1968	22.93	10.78	33.71	104.2	103.6	102.4	105.4	104.7	1968
1969	23.85	10.99	34.84	109.8	108.9	105.7	111.5	108.7	1969
1970	24.55	11.14	35.69	116.3	114.9	110.1	116.1	113.4	1970
1971	25.20	11.23	36.43	121.3	118.4	115.2	119.8	119.3	1971
1972	24.46	11.67	36.13	125.3	123.5	119.2	122.3	122.8	1972
1973	26.88	11.94	38.82	133.1	141.4	124.3	126.8	125.9	1973
1974	40.41	12.00	52.41	147.7	161.7	130.6	136.2	133.8	1974

Sources: Retail Price of Regular Grade Gasoline: Platt's Oil Price Handbook and Oilmanac
Price Indexes: U.S. Department of Labor, Bureau of Labor Statistics

TREND OF REGULAR GRADE GASOLINE PRICES vs. PRICES OF OTHER CONSUMER GOODS AND SERVICES

	RETAIL PRICE OF REGULAR GRADE GASOLINE			PRICE INDEXES OF SOME OTHER CONSUMER ITEMS					
Year	Service Station Price Excl. Taxes	State and Federal Taxes	Service Station Price Incl. Taxes	All Items	Food	Rent	Apparel and Upkeep	Entertainment[2]	Year
		CENTS PER GALLON				INDEX 1967 = 100			
1975	45.44	11.77	57.22	161.2	175.4	137.3	142.3	144.4	1975
1976	47.44	12.03	59.47	170.5	180.8	144.7	147.6	151.2	1976
1977	50.70	12.37	63.07	181.5	192.2	153.5	154.2	157.9	1977
1978	53.09	12.62	65.71	195.4[1]	211.4	164.0	159.6	176.6	1978
1979	74.33	13.46	87.79	217.4	234.5	176.0	166.6	188.5	1979
1980	107.35	14.37	121.72	246.8	254.6	191.6	178.4	205.3	1980

[1] Beginning in July, 1978, the CPI was given in two forms, CPI-U & CPI-W. The index used above is the CPI-U.
[2] Represented "Reading and Recreation" prior to July 1978.

Sources: Retail price of regular grade gasoline at full-service stations, Platt's Oil Price Handbook and Oilmanac
1979-80 retail price of regular grade gasoline at full-service stations, Platt's/Lundberg Summary from Platt's Oil Price Handbook
Price indexes, U.S. Department of Labor, Bureau of Labor Statistics

Section VI
Table 5

U.S. ANNUAL AVERAGE RETAIL PRICE OF #2 HOME HEATING OIL

Year	Cost per Gallon(1) (current cents)	Consumer Price Index (1967 = 100)	Cost Per Gallon (1967 constant cents)
1956(2)	15.21	81.4	18.69
1957	15.98	84.3	18.96
1958	15.07	86.6	17.40
1959	15.28	87.3	17.51
1960	15.02	88.7	16.93
1961	15.62	89.6	17.43
1962	15.62	90.6	17.24
1963	15.97	91.7	17.42
1964	16.06	92.9	17.29
1965	16.04	94.5	16.97
1966	16.43	97.2	16.90
1967	16.91	100.0	16.91
1968	17.44	104.2	16.74
1969	17.82	109.8	16.23
1970	18.48	116.3	15.89
1971	19.63	121.3	16.18
1972	19.72	125.3	15.74
1973	22.75	133.1	17.09
1974	36.01	147.7	24.38
1975	38.98	161.2	24.18
1976	41.80	170.5	24.52
1977	47.37	181.5	26.10
1978	50.80(e)	195.4	26.00
1979	72.80	217.4	33.49
1980	100.99	246.8	40.91

(e) Estimate

(1) Includes all applicable taxes

(2) Data prior to 1956 is not available on a comparable basis

Source: U.S. Department of Labor, Bureau of Labor Statistics BLS Monthly prices averaged by API to derive annual average price

U.S. NATURAL GAS LIQUIDS—AVERAGE ANNUAL PRICE AT NATURAL GAS PROCESSING PLANTS
(¢ per gal./$ per bbl.)

	LPG & Ethane		Natural Gas & Isopentane		Finished Gas & Naphtha		Plant Condensate		Other Products [1]		All Products	
Year	(¢/gal.)	($/bbl.)	(¢/gal.)	($/bbl.)	(¢/gal.)	($/bbl.)	(¢/gal.)	($/bbl.)	(¢/gal.)	($/bbl.)	(¢/gal.)	($/bbl.)
1947	3.53	1.483	6.23	2.618	[2]	[2]	[2]	[2]	6.24	2.620	5.31	2.232
1948	5.33	2.240	8.63	3.625	9.91	4.162	[2]	[2]	7.71	2.984	7.75	3.128
1949	4.08	1.712	7.03	2.952	8.64	3.630	[2]	[2]	6.80	2.854	6.10	2.560
1950	3.22	1.353	6.62	2.781	8.52	3.577	[2]	[2]	6.64	2.789	5.49	2.306
1951	3.82	1.603	7.22	3.032	8.58	3.604	[2]	[2]	6.72	2.824	5.91	2.482
1952	3.77	1.584	7.07	2.968	8.48	3.561	[2]	[2]	6.72	2.823	5.68	2.385
1953	4.08	1.714	5.89	2.473	9.71	4.078	[2]	[2]	7.31	3.071	5.97	2.506
1954	3.44	1.444	7.24	3.041	8.68	3.646	[2]	[2]	7.59	3.189	5.49	2.306
1955	3.27	1.373	7.02	2.950	8.77	3.684	[2]	[2]	6.82	2.864	5.24	2.200
1956	4.09	1.717	7.13	2.996	8.66	3.636	[2]	[2]	7.51	3.154	5.67	2.382
1957	3.96	1.664	6.80	2.856	9.25	3.886	[2]	[2]	8.29	3.480	5.48	2.303
1958	4.37	1.836	6.90	2.900	7.61	3.197	[2]	[2]	7.24	3.039	5.57	2.340
1959	4.44	1.866	6.88	2.888	8.55	3.593	[2]	[2]	8.66	3.638	5.63	2.365
1960	4.64	1.948	6.99	2.935	8.62	3.619	[2]	[2]	7.02	2.950	5.66	2.377
1961	4.07	1.711	6.69	2.808	6.76	2.838	[2]	[2]	7.05	2.960	5.14	2.163
1962	3.76	1.577	7.00	2.939	8.28	3.478	[2]	[2]	7.20	3.023	5.10	2.142
1963	3.49	1.467	6.53	2.744	8.19	3.438	[2]	[2]	6.88	2.889	4.74	1.993
1964	3.38	1.418	6.46	2.714	7.47	3.136	7.13	2.994	6.24	2.624	4.66	1.956
1965	3.70	1.557	6.61	2.775	8.26	3.468	7.07	2.968	6.63	2.783	4.92	2.064
1966	4.34	1.824	6.58	2.765	8.78	3.688	7.56	3.175	7.10	2.981	5.32	2.234
1967	4.61	1.938	6.65	2.794	9.13	3.833	7.52	3.159	7.16	3.006	5.46	2.294
1968	3.74	1.572	6.63	2.784	9.47	3.976	7.12	2.992	7.24	3.040	4.86	2.043
1969	3.14	1.318	6.90	2.900	9.87	4.144	7.38	3.101	6.74	2.834	4.52	1.899
1970	4.00	1.682	6.76	2.838	9.65	4.054	7.58	3.182	6.51	2.733	5.01	2.104
1971	4.39	1.842	7.15	3.004	10.33	4.337	8.03	3.373	6.24	2.621	5.34	2.243
1972	4.54	1.906	7.28	3.057	11.11	4.664	8.08	3.393	6.14	2.577	5.42	2.275
1973	6.33	2.658	8.37	3.514	10.22	4.292	9.38	3.941	7.74	3.254	6.97	2.927
1974	10.53	4.421	15.69	6.590	18.96	7.965	15.53	6.521	12.84	5.394	11.93	5.012
1975	10.15	4.264	13.84	5.811	18.47	7.759	13.03	5.471	12.74	5.350	11.08	4.652
1976	12.51	5.254	15.83	6.649	23.79	9.992	13.54	5.687	17.91	7.522	13.32	5.594

---

[1] Includes kerosine, distillate fuel oil, and miscellaneous products.

[2] Included with Other Products

Source: Energy Information Administration, Annual Reports.

Note: These prices are not available for years beyond 1976.

TOTAL DOLLAR VALUE OF U.S. CRUDE OIL AND NATURAL GAS AT THE WELLHEAD

	VALUE (thousand dollars)			PRODUCTION (trillion BTU)			PRICE AT WELLHEAD (cents per million BTU)			WHOLESALE PRICE INDEX	PRICE AT WELLHEAD (1967 constant cents per million BTU)			
Year	Oil	Gas	Total	Oil	Gas	Total	Oil	Gas	Total	1967 = 100	Oil	Gas	Total	Year
1947	$3,577,890	$ 274,709	$3,852,599	10,771	5,012	15,783	33.2¢	5.5¢	24.4¢	76.5	43.4¢	7.2¢	31.9¢	1947
1948	5,245,080	333,173	5,578,253	11,717	5,615	17,332	44.8	5.9	32.2	82.8	54.1	7.1	38.9	1948
1949	4,674,770	344,034	5,018,804	10,683	5,911	16,594	43.8	5.8	30.2	78.7	55.7	7.4	38.4	1949
1950	4,963,380	408,521	5,371,901	11,449	6,841	18,290	43.4	6.0	29.4	81.8	53.1	7.3	35.9	1950
1951	5,690,410	542,964	6,233,374	13,037	8,106	21,143	43.6	6.7	29.5	91.1	47.9	7.4	32.4	1951
1952	5,785,230	623,649	6,408,879	13,282	8,705	21,987	43.6	7.2	29.1	88.6	49.2	8.1	32.8	1952
1953	6,327,100	774,966	7,102,066	13,671	9,116	22,787	46.3	8.5	31.2	87.4	53.0	9.7	35.7	1953
1954	6,424,930	882,501	7,307,431	13,427	9,488	22,915	47.9	9.3	31.9	87.6	54.7	10.6	36.4	1954
1955	6,870,380	978,357	7,848,737	14,445	10,532	24,977	47.6	9.3	31.4	87.8	54.2	10.6	35.8	1955
1956	7,296,760	1,083,812	8,380,572	15,344	11,252	26,596	47.6	9.6	31.5	90.7	52.5	10.6	34.7	1956
1957	8,079,259	1,201,759	9,281,018	15,346	11,885	27,231	52.6	10.1	34.1	93.3	56.4	10.8	36.5	1957
1958	7,379,973	1,317,521	8,697,494	14,154	12,244	26,398	52.1	10.8	32.9	94.6	55.1	11.4	34.8	1958
1959	7,473,336	1,556,800	9,030,136	14,662	13,361	28,023	51.0	11.7	32.2	94.8	53.8	12.3	34.0	1959
1960	7,420,181	1,789,970	9,210,151	14,664	14,135	28,799	50.6	12.7	32.0	94.9	53.3	13.4	33.7	1960
1961	7,565,582	1,996,241	9,561,823	15,185	14,691	29,876	49.8	13.6	32.0	94.5	52.7	14.4	33.9	1961
1962	7,774,051	2,145,301	9,919,352	15,495	15,365	30,860	50.2	14.0	32.1	94.8	53.0	14.8	33.9	1962
1963	7,965,743	2,328,030	10,293,773	15,741	16,271	32,012	50.6	14.3	32.2	94.5	53.5	15.1	34.1	1963
1964	8,017,078	2,387,689	10,404,767	15,691	17,138	32,829	51.1	13.9	31.7	94.7	54.0	14.7	33.5	1964
1965	8,158,298	2,494,542	10,652,840	15,930	17,652	33,582	51.2	14.1	31.7	96.6	53.0	14.6	32.8	1965
1966	8,726,423	2,702,759	11,429,182	16,925	18,984	35,909	51.6	14.2	31.8	99.8	51.7	14.2	31.9	1966
1967	9,375,727	2,898,741	12,274,468	18,100	20,087	38,187	51.8	14.4	32.1	100.0	51.8	14.4	32.1	1967
1968	9,794,826	3,168,688	12,963,514	18,593	21,548	40,141	52.7	14.7	32.3	102.5	51.4	14.3	31.5	1968
1969	10,426,680	3,455,615	13,882,295	18,886	22,838	41,724	55.2	15.1	33.3	106.5	51.8	14.2	31.3	1969
1970[r/]	11,173,726	3,745,680	14,919,406	20,401	24,154	44,555	54.8	15.5	33.5	110.4	49.6	14.0	30.3	1970[r/]
1971[r/]	11,692,998	4,085,482	15,778,480	20,033	24,805	44,838	58.4	16.5	35.2	113.9	51.3	14.5	30.9	1971[r/]
1972[r/]	11,706,510	4,180,462	15,886,972	20,041	24,792	44,833	58.4	16.9	35.4	119.1	49.0	14.2	29.7	1972[r/]
1973[r/]	13,057,905	4,894,072	17,951,977	19,493	24,746	44,239	67.0	19.8	40.6	134.7	49.7	14.7	30.1	1973[r/]
1974[r/]	21,580,549	6,573,402	28,153,951	18,575	23,689	42,264	116.2	27.7	66.6	160.1	72.6	17.3	41.6	1974[r/]

[r/] Revised

Sources: Dollar value and production, U.S. Bureau of Mines
U.S. Bureau of Labor Statistics, Wholesale Price Index
Price at wellhead computed by the American Petroleum Institute

November 1976

Section VI
Table 7

TOTAL DOLLAR VALUE OF U.S. CRUDE OIL AND NATURAL GAS AT THE WELLHEAD

	VALUE (thousand dollars)			PRODUCTION (trillion BTU)			PRICE AT WELLHEAD (cents per million BTU)			PRODUCER PRICE INDEX(1)	PRICES AT WELLHEAD (1967 constant cents) per million BTU)			
Year	Oil	Gas	Total	Oil	Gas	Total	Oil	Gas	Total	1967 = 100	Oil	Gas	Total	Year
1975	$23,116,059	$ 8,945,062	$32,061,121	17,729	20,531	38,260	130.4¢	43.6¢	83.8¢	174.9	74.5¢	24.9¢	47.9¢	1975
1976	24,229,540	11,571,776	35,801,316	17,262	20,371	37,633	140.4	56.8	95.1	183.0	76.7	31.0	52.0	1976
1977	25,790,722	15,825,954	41,616,676	17,454	20,025	37,479	147.8	77.4	111.0	194.2	76.1	39.9	57.2	1977
1978(r)	28,477,824	18,084,914	46,562,738	18,434	20,393	38,827	154.5	88.7	119.9	209.3	73.8	42.4	57.3	1978(r)
1979(p)	39,051.332	24,113,634	63,164,996	18,103	20,901	39,004	215.7	115.4	161.9	235.6	91.6	49.0	68.7	1979(p)

(r) Revised

(p) Preliminary

(1) For 1976 and prior years figures are for Wholesale Price Index

Sources: Dollar value and production, U.S. Energy Information Administration
Producer Price Index, U.S. Bureau of Labor Statistics
Price at wellhead computed by the American Petroleum Institute

U.S. AVERAGE WELLHEAD VALUE PER BARREL OF CRUDE OIL BY STATE

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	—	—	—	—	—	—	—	—	—	—	—	—	—	$2.90
Alaska	—	—	—	—	—	—	—	—	—	—	—	—	$1.58	2.20
Arizona	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arkansas	$1.82	$2.48	$2.48	$2.46	$2.48	$2.46	$2.60	$2.73	$2.71	$2.69	$2.92	$2.82	2.77	2.77
California	1.72	2.42	2.26	2.16	2.25	2.23	2.49	2.55	2.50	2.62	3.05	2.90	2.55	2.46
Colorado	1.89	2.56	2.55	2.55	2.54	2.55	2.71	2.77	2.75	2.78	3.02	2.99	2.90	2.90
Florida	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Illinois	2.10	2.77	2.77	2.77	2.77	2.76	2.89	2.98	2.91	2.93	3.12	3.00	2.99	2.96
Indiana	2.10	2.77	2.77	2.76	2.75	2.75	2.93	2.96	2.91	2.93	3.13	3.01	2.97	2.94
Kansas	1.93	2.60	2.58	2.57	2.57	2.56	2.69	2.81	2.80	2.79	3.01	3.00	2.91	2.90
Kentucky	2.11	2.77	2.76	2.76	2.77	2.76	2.91	2.92	2.89	2.91	3.13	2.95	2.81	2.85
Louisiana	2.01	2.68	2.66	2.65	2.65	2.64	2.81	2.93	2.93	2.93	3.32	3.26	3.16	3.14
Michigan	2.13	2.86	2.75	2.70	2.72	2.66	2.92	2.96	2.92	2.87	3.06	2.94	2.94	2.91
Mississippi	1.76	2.41	2.46	2.31	2.24	2.23	2.36	2.50	2.46	2.45	2.91	2.86	2.84	2.83
Missouri	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Montana	1.94	2.58	2.58	2.52	2.47	2.25	2.18	2.20	2.26	2.58	2.70	2.65	2.56	2.41
Nebraska	1.85	2.43	2.21	2.13	2.33	2.44	2.71	2.75	2.75	2.79	2.98	2.94	2.88	2.87
Nevada	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Mexico	1.77	2.45	2.44	2.43	2.45	2.47	2.63	2.75	2.74	2.75	2.99	2.98	2.85	2.85
New York	4.21	4.94	3.56	3.78	4.23	4.23	4.28	3.42	3.55	4.40	4.73	4.23	4.24	4.64
North Dakota	—	—	—	—	—	2.00	2.00	2.14	2.89	2.90	3.13	2.99	2.80	2.71
Ohio	3.36	4.22	2.93	3.03	3.05	2.99	2.69	2.76	2.89	3.14	3.23	2.89	2.87	2.97
Oklahoma	1.92	2.58	2.56	2.57	2.57	2.56	2.70	2.79	2.78	2.78	3.03	2.96	2.92	2.92
Pennsylvania	4.19	4.96	3.57	3.82	4.25	4.25	4.29	3.42	3.54	4.34	4.73	4.10	4.20	4.55
South Dakota	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tennessee	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Texas	1.95	2.61	2.59	2.59	2.58	2.58	2.73	2.84	2.84	2.83	3.11	3.06	2.98	2.96
Utah	—	—	—	—	—	—	—	—	—	—	2.27	2.99	2.86	2.74
Virginia	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Washington	—	—	—	—	—	—	—	—	—	—	—	—	—	—
West Virginia	3.90	4.76	3.09	3.33	3.76	3.76	3.81	2.93	3.05	3.86	4.26	3.49	3.60	4.07
Wyoming	1.68	2.33	2.28	2.16	2.15	2.18	2.37	2.45	2.41	2.44	2.66	2.61	2.50	2.51
Other	1.53	2.00	2.00	2.00	2.00	2.00	2.09	2.29	2.18	2.26	2.91	2.93	2.94	2.45
Total	**1.93**	**2.60**	**2.54**	**2.51**	**2.53**	**2.53**	**2.68**	**2.78**	**2.77**	**2.79**	**3.09**	**3.01**	**2.90**	**2.88**

Source: U.S. Bureau of Mines. Annual Petroleum Statements

Section VI
Table 8

April 1976

U.S. AVERAGE WELLHEAD VALUE PER BARREL OF CRUDE OIL BY STATE

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	$2.75	$2.59	$2.59	$2.60	$2.61	$2.60	$2.65	$2.67	$2.70	$2.84	$3.00	$3.07	$3.58	$8.54	$10.13	$10.57
Alaska	2.79	3.04	3.04	3.04	3.06	3.06	3.13	2.82	2.90	3.01	3.24	3.23	3.62	4.92	5.22	5.03
Arizona	—	—	—	—	2.85	2.80	2.80	2.85	2.90	2.96	3.17	2.25	3.86	5.25	5.25	5.25
Arkansas	2.75	2.66	2.66	2.66	2.66	2.66	2.70	2.73	2.83	2.87	3.11	3.15	3.92	7.43	8.88	9.65
California	2.43	2.50	2.48	2.43	2.38	2.35	2.31	2.35	2.45	2.54	2.72	2.71	3.11	5.30	6.03	6.15
Colorado	2.88	2.88	2.88	2.88	2.88	2.91	2.92	2.95	3.12	3.18	3.39	3.41	4.25	7.57	9.60	9.65
Florida	—	—	—	—	—	—	—	—	—	—	—	3.18	4.59	9.66	11.71	11.24
Illinois	2.99	2.98	2.98	2.93	2.93	3.00	3.04	3.07	3.18	3.25	3.47	3.47	4.32	8.87	10.48	10.18
Indiana	2.98	2.98	2.96	2.85	2.84	3.00	2.98	3.05	3.19	3.20	3.42	3.42	3.92	8.62	10.54	10.89
Kansas	2.89	2.91	2.91	2.92	2.92	2.95	3.00	3.02	3.20	3.27	3.52	3.52	4.25	7.96	9.50	9.50
Kentucky	2.97	2.95	2.92	2.87	2.87	2.85	2.90	2.93	3.11	3.15	3.36	3.36	3.97	8.72	11.19	11.42
Louisiana	3.15	3.15	3.12	3.11	3.10	3.11	3.12	3.14	3.30	3.38	3.59	3.59	4.00	6.53	7.09	7.51
Michigan	2.92	2.85	2.85	2.81	2.79	2.87	2.89	2.95	3.07	3.10	3.27	3.20	4.07	8.59	10.74	10.84
Mississippi	2.82	2.78	2.76	2.67	2.64	2.65	2.72	2.80	2.92	2.99	3.15	3.15	3.81	6.10	6.66	7.14
Missouri	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[1]	[1]
Montana	2.42	2.42	2.44	2.43	2.43	2.44	2.50	2.57	2.69	2.78	3.01	3.07	3.33	6.65	7.83	8.42
Nebraska	2.85	2.83	2.83	2.70	2.66	2.72	2.75	2.79	2.98	3.09	3.38	3.38	3.87	6.83	9.01	8.99
Nevada	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[1]	[1]
New Mexico	2.86	2.88	2.88	2.87	2.81	2.84	2.92	2.95	3.13	3.20	3.40	3.41	4.10	7.22	8.29	8.84
New York	4.76	4.60	4.59	4.44	4.44	4.57	4.58	4.63	4.52	4.52	4.70	4.81	5.60	10.65	12.22	12.25
North Dakota	2.72	2.75	2.73	2.48	2.50	2.55	2.60	2.64	2.80	3.05	3.27	3.28	3.90	6.04	7.32	7.84
Ohio	3.09	3.10	3.15	2.93	2.94	3.00	3.17	3.19	3.29	3.34	3.60	3.76	5.08	9.83	11.89	11.77
Oklahoma	2.91	2.92	2.91	2.90	2.89	2.91	2.93	2.99	3.12	3.19	3.40	3.41	3.78	7.18	8.52	9.19
Pennsylvania	4.71	4.57	4.56	4.32	4.32	4.45	4.49	4.49	4.52	4.52	4.66	4.77	5.62	10.41	12.15	12.16
South Dakota	—	—	—	2.00	2.00	2.00	2.38	2.15	2.29	2.34	2.59	2.62	3.59	6.65	12.70	12.35
Tennessee	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.51	13.72
Texas	2.97	2.99	2.97	2.96	2.96	2.97	3.01	3.04	3.21	3.28	3.48	3.48	3.98	6.95	7.64	8.59
Utah	2.75	2.74	2.72	2.62	2.61	2.64	2.63	2.67	2.80	2.81	3.04	3.04	3.61	7.11	8.23	9.30
Virginia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[1]	[1]
Washington	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
West Virginia	4.14	4.00	3.99	3.85	3.85	3.98	4.00	3.97	3.83	3.80	3.91	4.50	5.02	10.15	11.99	12.00
Wyoming	2.50	2.49	2.50	2.53	2.50	2.56	2.58	2.64	2.80	2.93	3.10	3.09	3.82	6.53	7.24	7.24
Other	2.31	2.10	2.06	2.14	2.10	2.19	2.28	2.30	2.47	2.52	2.91	2.89	3.48	8.72	6.33	11.22
Total	**2.89**	**2.90**	**2.89**	**2.88**	**2.86**	**2.88**	**2.92**	**2.94**	**3.09**	**3.18**	**3.39**	**3.39**	**3.89**	**6.74**	**7.56**	**8.14**

Included with other

Source: U.S. Bureau of Mines, Annual Petroleum Statements

U.S. AVERAGE WELLHEAD VALUE PER BARREL OF CRUDE OIL BY STATE

STATE	1977	1978	1979
Alabama	9.67	10.77	14.94
Alaska	5.64	6.02	10.74
Arizona	5.25	5.92	8.29
Arkansas	9.93	12.94	14.73
California	7.31	7.22	12.60
Colorado	10.10	9.92	13.14
Florida	11.67	12.00	13.07
Illinois	12.27	13.80	23.49
Indiana	12.46	13.29	23.56
Kansas	10.00	13.20	22.00
Kentucky	13.02	13.73	22.58
Louisiana	8.33	9.42	11.40
Michigan	11.00	12.34	14.94
Mississippi	8.20	8.11	13.95
Missouri	(1)	(1)	(1)
Montana	8.56	9.25	12.39
Nebraska	10.46	11.40	16.75
Nevada	(1)	(1)	(1)
New Mexico	9.23	10.01	14.06
New York	14.20	14.74	23.78
North Dakota	8.00	8.55	12.00
Ohio	13.16	13.81	22.52
Oklahoma	9.98	10.90	15.03
Pennsylvania	14.29	14.77	24.09
South Dakota	12.00	12.13	25.28
Tennessee	13.75	12.70	20.26
Texas	8.78	9.29	12.62
Utah	9.33	9.98	11.41
Virginia	(1)	(1)	(1)
Washington	—	—	—
West Virginia	13.97	14.50	28.00
Wyoming	7.62	9.16	8.50
Other	10.98	9.82	12.41
Total	8.57	8.96	12.51

---

(1) Included under "Other"

Source: U.S. Energy Information Administration, Annual Petroleum Statements

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	—	—	—	5.0	5.0	4.0	5.0	6.0	7.1	7.9	6.4	9.2	9.7	7.3
Alaska	—	—	—	—	—	—	—	—	—	—	—	12.0	12.0	12.2
Arizona	—	—	—	—	—	—	—	—	—	14.0	—	—	—	—
Arkansas	3.6	4.5	4.0	3.5	4.0	4.1	5.3	5.5	5.6	6.0	7.2	8.1	8.7	11.9
California	10.2	11.3	11.8	11.9	14.6	16.7	19.7	20.6	22.2	22.5	23.7	23.3	24.6	26.7
Colorado	7.9	6.0	5.2	3.9	4.3	5.5	5.8	8.7	9.9	9.8	10.0	10.5	11.0	11.9
Florida	3.2	3.7	4.1	5.2	7.3	6.7	6.8	8.3	10.4	8.3	13.0	13.6	14.3	16.2
Illinois	9.2	12.3	11.3	10.1	15.3	16.2	16.8	14.2	12.9	15.1	15.5	14.8	13.9	12.5
Indiana	9.1	9.8	7.4	7.0	9.8	9.5	7.0	6.0	12.4	12.1	13.1	15.6	19.0	17.8
Kansas	5.1	5.0	5.4	6.6	8.1	8.3	8.6	10.6	11.1	11.3	11.4	11.4	12.0	11.7
Kentucky	15.0	18.4	19.1	19.7	21.7	21.7	21.9	22.8	23.7	23.1	23.8	24.1	23.7	24.4
Louisiana	3.6	3.9	4.4	5.3	5.8	6.7	8.2	8.9	11.3	11.4	11.2	12.9	15.4	17.1
Maryland	—	—	—	19.8	20.0	19.4	19.0	20.2	20.1	25.3	26.2	26.9	27.0	26.6
Michigan	12.7	14.7	15.2	13.2	14.8	14.6	16.4	17.8	11.5	13.3	18.8	18.6	23.0	21.4
Mississippi	5.0	5.6	6.2	6.3	6.3	6.1	8.0	8.3	9.6	9.8	10.3	13.9	15.5	18.8
Missouri	13.2	18.5	16.7	14.3	14.3	18.8	20.0	18.8	20.0	16.7	16.7	—	—	25.0
Montana	4.6	4.6	5.6	5.3	5.5	6.1	5.9	6.8	6.1	6.8	7.2	6.8	7.5	7.1
Nebraska	—	—	—	11.8	12.8	13.3	13.5	11.7	20.4	21.0	16.0	15.0	15.9	17.5
New Mexico	1.8	2.7	2.9	3.0	3.8	4.6	6.1	7.8	8.9	8.8	9.4	10.4	10.0	10.7
New York	24.3	22.1	24.6	25.1	25.1	29.2	31.6	32.6	29.5	28.3	28.4	30.6	30.5	30.9
North Dakota	3.2	3.0	5.2	5.1	5.2	6.1	6.8	6.3	7.7	8.1	9.5	9.7	9.9	11.4
Ohio	19.7	19.7	19.3	19.4	20.2	21.7	22.2	21.2	22.5	24.0	23.7	21.4	23.2	23.5
Oklahoma	3.9	4.9	4.7	4.9	5.3	5.4	6.9	7.0	7.4	8.0	8.3	10.1	10.0	11.9
Pennsylvania	23.7	24.1	25.6	25.3	27.7	28.3	29.1	29.9	29.9	32.2	31.1	28.3	29.2	31.8
South Dakota	6.0	6.5	6.3	—	5.0	5.0	5.0	5.0	—	—	—	—	—	—
Tennessee	6.3	9.4	9.1	10.0	9.4	10.3	12.0	11.5	12.9	12.9	15.8	16.7	16.7	17.5
Texas	3.7	4.5	4.6	4.7	5.4	6.2	7.6	8.5	8.0	8.7	9.7	10.0	10.8	11.3
Utah	5.4	6.0	6.0	6.0	6.6	7.5	11.4	14.1	13.9	14.1	14.7	14.7	14.2	18.0
Virginia	9.4	9.5	7.7	8.7	15.6	24.6	25.8	27.1	26.8	27.7	26.8	27.0	26.2	27.1
West Virginia	15.4	16.7	16.2	16.8	18.6	19.6	23.6	23.8	23.5	23.7	23.8	24.8	26.0	26.2
Wyoming	5.0	5.9	5.6	6.0	7.5	7.8	7.9	8.4	8.5	8.6	8.7	8.4	8.1	12.0
Total	**6.0**	**6.5**	**6.3**	**6.5**	**7.3**	**7.8**	**9.2**	**10.1**	**10.4**	**10.8**	**11.3**	**11.9**	**12.9**	**14.0**

Source: U.S. Bureau of Mines.Minerals Yearbooks and Natural Gas Annuals

Section VI
Table 9

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	7.4	9.8	11.8	10.9	12.7	12.8	12.7	13.1	13.4	13.9	15.1	35.2	38.2	74.3	87.0	98.5
Alaska	20.4	21.4	24.7	27.6	24.8	24.8	25.0	25.3	25.9	24.6	14.7	14.7	14.9	17.0	30.2	38.9
Arizona	—	11.9	12.1	12.0	12.1	13.8	15.4	16.1	17.5	17.1	17.8	18.1	18.4	20.0	28.0	28.2
Arkansas	13.5	14.9	15.5	15.6	15.6	15.6	15.3	15.6	15.8	16.3	17.1	17.3	18.4	26.0	34.7	53.0
California	28.3	29.0	29.3	30.1	30.9	31.0	29.7	30.9	30.6	32.1	32.6	36.8	37.3	44.0	70.0	94.0
Colorado	11.6	11.6	11.7	11.9	12.9	13.0	13.3	13.5	14.5	14.7	15.6	16.5	17.7	20.0	26.0	48.0
Florida	18.9	20.7	20.0	13.5	12.9	14.2	14.8	15.2	15.7	—	29.9	32.0	34.3	53.6	97.3	98.2
Illinois	12.8	14.3	12.9	11.6	11.7	11.9	11.7	12.6	14.1	15.7	28.0	28.0	35.0	40.0	70.0	98.5
Indiana	20.1	21.1	23.4	23.6	23.6	23.7	23.4	23.4	23.6	23.7	16.5	15.5	13.8	14.0	39.0	52.0
Kansas	12.5	12.4	13.3	12.6	13.3	13.5	13.4	13.8	13.9	14.0	14.4	14.4	15.5	16.6	17.2	42.0
Kentucky	24.8	24.8	23.9	23.7	23.6	23.7	24.0	25.0	25.1	24.6	25.1	25.1	35.0	50.0	54.0	55.0
Louisiana	18.7	19.7	19.8	19.1	18.2	18.3	18.5	18.9	19.2	19.3	20.2	20.4	22.4	30.7	42.3	46.0
Maryland	27.2	27.0	26.9	26.7	25.2	26.0	25.6	25.6	25.4	24.9	20.0	20.9	23.3	24.0	27.0	32.3
Michigan	21.1	21.3	27.1	25.4	25.1	15.2	24.7	25.1	25.7	26.7	26.4	30.7	39.2	50.4	63.4	89.5
Mississippi	18.6	19.0	18.0	17.4	17.3	17.4	17.3	16.7	17.6	18.4	20.9	21.8	22.9	29.5	49.6	71.0
Missouri	24.7	25.0	27.0	24.3	24.5	—	24.5	28.6	13.8	24.5	24.8	24.9	24.2	31.4	34.0	34.5
Montana	7.4	7.4	7.5	7.8	8.2	8.3	8.4	9.1	10.2	10.3	12.1	12.3	23.6	25.3	43.3	44.5
Nebraska	16.7	18.2	18.8	15.4	14.6	15.9	17.2	17.5	17.3	17.1	17.5	17.8	18.2	34.0	54.1	51.3
New Mexico	10.9	11.5	11.9	11.7	11.8	12.5	13.0	13.4	13.7	14.3	15.0	18.5	23.6	31.4	40.5	56.5
New York	29.5	28.1	29.5	31.0	30.8	31.0	31.3	31.9	30.0	30.3	30.0	32.6	35.0	55.0	74.0	113.0
North Dakota	12.6	13.7	19.1	22.1	16.0	16.2	16.4	16.5	16.2	16.4	16.7	16.8	19.7	19.9	23.0	34.0
Ohio	24.9	25.6	24.2	23.9	23.6	23.7	24.1	24.7	25.8	27.1	33.8	39.2	42.5	48.2	70.6	101.8
Oklahoma	12.1	12.8	13.0	12.7	13.8	14.0	14.3	14.2	15.3	15.6	16.3	16.3	18.9	28.0	32.0	50.2
Pennsylvania	29.4	27.2	26.0	27.3	26.7	28.4	28.1	27.8	17.6	27.9	27.2	30.3	42.0	44.0	67.5	68.5
Tennessee	18.3	18.5	18.9	19.5	19.0	—	19.0	19.4	19.6	19.9	22.1	30.0	30.0	36.0	43.0	71.0
Texas	12.3	12.3	12.5	12.5	12.9	13.0	13.2	13.5	13.7	14.4	16.1	16.4	20.4	31.1	51.9	71.8
Utah	15.7	16.8	18.2	13.7	12.5	12.7	13.2	15.8	15.4	15.1	16.7	17.0	19.1	41.2	48.0	50.5
Virginia	27.1	27.1	23.4	29.9	29.9	30.0	30.1	29.9	29.7	30.8	31.4	32.0	33.1	51.0	51.5	114.0
West Virginia	27.4	27.5	26.6	25.1	23.5	23.6	24.1	26.2	27.0	25.4	25.9	30.0	30.9	32.8	36.9	57.0
Wyoming	12.5	14.6	14.2	12.9	13.5	14.5	14.6	14.6	14.7	14.7	15.3	16.2	18.1	24.5	33.7	41.0
Total	**15.1**	**15.5**	**15.8**	**15.4**	**15.6**	**15.7**	**15.0**	**16.4**	**16.7**	**17.1**	**18.2**	**18.6**	**21.6**	**30.4**	**44.5**	**58.0**

Source: U.S. Bureau of Mines, Minerals Yearbooks and Natural Gas Annuals

U.S. AVERAGE WELLHEAD VALUE OF NATURAL GAS BY STATE
(cents per thousand cubic feet)

STATE	1977	1978	1979
Alabama	147.0	150.0	203.9
Alaska	40.2	52.1	51.8
Arizona	33.5	37.0	41.3
Arkansas	58.5	75.0	95.9
California	116.9	135.7	170.5
Colorado	81.0	84.0	141.0
Florida	108.9	139.0	157.2
Illinois	120.0	129.0	186.1
Indiana	69.0	71.0	105.4
Kansas	48.5	57.0	75.6
Kentucky	55.0	58.0	94.7
Louisiana	70.3	83.6	111.5
Maryland	39.0	61.4	103.6
Michigan	101.0	119.7	174.0
Mississippi	73.0	114.6	160.0
Missouri	42.0	—	—
Montana	71.9	84.7	121.1
Nebraska	65.2	68.0	85.0
New Mexico	81.0	98.8	136.6
New York	116.0	119.0	126.6
North Dakota	35.3	46.2	128.0
Ohio	139.7	157.0	180.5
Oklahoma	79.0	90.2	112.4
Oregon	—	—	213.0
Pennsylvania	80.0	86.0	132.6
South Dakota	—	—	210.7
Tennessee	74.0	164.0	170.0
Texas	90.3	99.5	123.4
Utah	61.2	64.3	71.6
Virginia	126.0	131.3	168.1
West Virginia	61.0	65.8	105.0
Wyoming	64.0	79.3	113.0
Total	**79.0**	**90.5**	**117.8**

Source: U.S. Energy Information Administration, Natural Gas Annuals

May 1981

POSTED PRICES OF KEY FOREIGN CRUDE OILS

(In U.S. $ per barrel. Postings in effect on dates shown or thereabouts.)

Prices are not actual sales prices, but prices posted by governments for computing oil company taxes.

CRUDE & GRAVITY		1970	1971 [1]	1972	1973 [1]				1974			1975		1977	
		31 Aug.	15 Feb.	20 Jan.	1 Jan.	1 Oct.	16 Oct.	1 Nov.	1 Jan.	1 July	1 Nov.	1 Jan.	1 Oct.	1 Jan.	1 July
PERSIAN / ARABIAN GULF CRUDES															
Saudi Arabia															
Arab Light	34°	1.80	2.18	2.48	2.59	3.01	5.12	5.18	11.65	11.25	11.25	11.25	12.38	13.00	13.66
Arab Berri	39	1.90	2.26	2.55	2.67	3.09	5.68	5.74	12.35	12.35	11.95	11.95	12.77	13.42	14.22
Arab Medium	31	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.56	11.56	11.16	11.16	12.23	12.57	13.25
Arab Heavy	27	1.47	1.97	2.24	2.35	2.73	4.63	4.68	11.44	11.44	11.04	11.04	12.09	12.23	12.92
Iran															
Iran Light	34	1.79	2.17	2.47	2.58	3.00	5.34	5.40	11.88	11.88	11.48	11.48	12.50	13.77	13.77
Iran Heavy	31	1.63	2.13	2.41	2.53	2.94	4.99	5.05	11.64	11.64	11.24	11.24	12.36	13.43	13.43
Kuwait															
Kuwait	31	1.59	2.09	2.37	2.48	2.88	4.90	4.96	11.55	11.55	11.15	11.15	12.26	N.A.	N.A.
Abu Dhabi															
Murban	39	1.88	2.24	2.54	2.65	3.08	6.05	6.11	12.64	12.64	12.24	11.69	12.82	13.44	14.26
Marine (Umm Shaif)	37	1.86	2.23	2.53	2.64	3.07	5.54	5.60	12.09	12.09	11.69	11.45	12.58	13.20	14.02
Zakum	40	1.92	2.27	2.57	2.69	3.12	5.96	6.03	12.57	12.57	12.17	11.59	12.72	13.34	14.16
Iraq															
Basrah	35	1.72	2.16	2.45	2.56	2.98	5.06	5.12	11.67	11.67	11.27	11.28	12.40	N.A.	N.A.
Qatar															
Dukhan	40	1.93	2.28	2.59	2.71	3.14	5.83	5.90	12.41	12.41	12.01	12.01	12.74	14.18	14.18
Marine	36	1.83	2.20	2.50	2.61	3.04	5.50	5.56	12.01	12.01	11.61	11.61	12.54	13.98	13.98
Oman															
Oman	34	1.84	2.22	2.52	2.63	3.06	5.74	5.80	12.30	12.30	11.90	11.90	12.51	13.68	13.98
MEDITERRANEAN & AFRICAN CRUDES															
Saudi Arabia															
Arab Light	34	2.17	2.37	3.37	3.45	4.21	7.15	7.23	13.65	13.65	13.25	13.25	13.25	N.A.	N.A.
Iraq															
Kirkuk	36	2.21	2.41	3.40	3.48	4.24	7.21	7.29	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Libya															
Libya	40	2.18	2.55	3.67	3.78	4.60	8.93	9.06	15.77	15.77	15.77	15.77	16.03	18.25	18.78
Nigeria															
Nigeria	34	2.17	2.42	3.18	3.56	4.29	8.31	8.40	14.69	14.69	14.69	14.69	13.07	N.A.	N.A.
VENEZUELAN CRUDES (Reference Prices)															
Venezuela															
Tia Juana	26	2.01	2.09	2.95	3.09	4.93	4.93	7.26	13.84	14.31	14.31	13.54	14.64	N.A.	N.A.
Tia Juana	31	2.19	2.27	3.09	3.25	5.20	5.20	7.56	14.36	14.91	14.91	14.13	15.58	N.A.	N.A.
Oficina	35	2.34	2.42	3.26	3.40	5.45	5.45	7.80	14.88	15.44	15.44	14.67	16.17	N.A.	N.A.

N.A. Not Available

[1] Representative postings. Does not include price changes for 1 June 1971; 1 April, 1 June, 1 July, 1 August, 1 December 1973.

Source: Petroleum Intelligence Weekl

April 1978

Section VI
Table 10

POSTED PRICES OF KEY FOREIGN CRUDE OILS

(In U.S. $ per barrel. Postings in effect on dates shown or thereabouts.)

Prices are not actual sales prices, but prices posted by governments for computing oil company taxes.

CRUDE & GRAVITY		1979 1 Jan.
PERSIAN/ARABIAN GULF CRUDES		
Saudi Arabia		
Arab Light	34°	14.34
Arab Berri	39	14.93
Arab Medium	31	13.91
Arab Heavy	27	13.57
Iran		
Iran Light	34	14.45
Iran Heavy	31	14.10
Kuwait		
Kuwait	31	N.A.
Abu Dhabi		
Murban	39	14.97
Marine (Umm Shaif)	37	14.72
Zakum	40	14.87
Iraq		
Basrah	35	N.A.
Qatar		
Dukhan	40	14.89
Marine	36	14.68
Oman		
Oman	34	14.68
MEDITERRANEAN & AFRICAN CRUDES		
Saudi Arabia		
Arab Light	34	N.A.
Iraq		
Kirkuk	36	N.A.
Libya		
Libya	40	19.72
Nigeria		
Nigeria	34	N.A.
VENEZUELAN CRUDES (Reference Prices)		
Venezuela		
Tia Juana	26	N.A.
Tia Juana	31	N.A.
Oficina	35	N.A.

N.A. Not Available

Source: Petroleum Intelligence Weekly

January 1979

OFFICIAL GOVERNMENT SELLING PRICES[1] OF KEY FOREIGN CRUDE OILS
(Dollars/Barrel)

CRUDE & GRAVITY		1974				1975		1976			1977	
		1 Jan.	1 June	1 Oct.	1 Nov.	1 Jan.	1 Oct.	14 Feb.	1 June	1 Oct.	1 Jan.	1 July
						PERSIAN / ARABIAN CRUDES						
Saudi Arabia												
Arab Light	34°	10.95	11.05	10.84	10.46	10.46	11.51	11.51	11.51	11.51	12.09	12.70
Arab Berri	39	11.61	11.71	11.49	11.11	11.11	11.87	11.87	11.87	11.87	12.48	13.22
Arab Medium	31	10.87	10.97	10.75	10.38	10.38	11.33	11.33	11.28	11.28	11.69	12.32
Arab Heavy	27	10.76	10.85	10.64	10.27	10.27	11.14	11.14	11.14	11.04	11.37	12.02
Iran												
Iran Light	34	11.16	11.26	11.04	10.67	10.67	11.62	11.62	11.62	11.62	12.81	12.81
Iran Heavy	31	10.94	11.04	10.82	10.45	10.45	11.50	11.40	11.33	11.33	12.49	12.49
Kuwait												
Kuwait	31	10.85	10.95	10.74	10.37	10.37	11.30	11.30	11.23	11.23	12.37	12.27
Abu Dhabi												
Murban	39	11.88	11.88	11.75	11.38	10.87	11.92	11.92	11.92	11.92	12.50	13.26
Umm Shaif	37	11.36	11.36	11.24	10.87	10.65	11.70	11.70	11.70	11.70	12.28	13.04
Zakum	40	11.81	11.81	11.69	11.31	10.78	11.83	11.83	11.83	11.83	12.41	13.17
Iraq												
Basrah	35	10.97	10.97	10.86	10.48	10.48	11.45	11.45	11.45	11.46e	12.65e	12.65e
Kirkuk	36	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	11.60e	11.65-.70e	11.70e	12.89e	12.85e
Qatar												
Dukhan	40	11.67	11.67	11.55	11.17	11.17	11.85	11.85	11.85	11.85	13.19	13.19
Marine	36	11.29	11.29	11.17	10.80	10.80	11.66	11.66	11.66	11.66	13.00	13.00
Oman												
Oman	34	11.56	11.56	11.44	11.07	11.07	11.63	11.63	11.70	11.70e	12.74	13.00
						MEDITERRANEAN AND AFRICAN CRUDES						
Iraq												
Kirkuk	36	N.A.	N.A.	N.A.	N.A.	10.67	11.74e	11.95e	N.A.	N.A.	N.A.	13.50
Libya												
Brega	40	N.A.	N.A.	N.A.	N.A.	11.20	12.32	12.32	12.32	12.62	13.92	14.20
Nigeria												
Bonny	37	N.A.	N.A.	N.A.	N.A.	11.43	12.60	12.84	12.89	13.10	14.33	14.63
						OTHER CRUDES						
Indonesia												
Sumatra Light	35	10.80	10.80	12.60	12.60	12.60	12.80	12.80	12.80	12.80	13.55	13.55
Venezuela												
Tia Juana	26	N.A.	N.A.	N.A.	N.A.	11.62	11.39	11.12	11.22	11.65	12.72	12.72
Tia Juana	31	N.A.	N.A.	N.A.	N.A.	11.05	12.06	12.30	12.30	12.30	12.35	13.54
Oficina	35	N.A.	N.A.	N.A.	N.A.	11.49	12.54	12.80	12.80	12.80	13.99[2]	N.A.
Ecuador												
Oriente	30	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	11.60	11.60	13.00	13.00

---

eEstimates by PIW

N.A. Not available

[1] These are the governments' official prices applicable to sales to third parties and to crude sold back to companies still retaining an equity interest in Middle East oil producing ventures.

[2] Estimate by Petroleum Economist, October 1977.

Source: Petroleum Intelligence Weekly

Section VI
Table 11a

OFFICIAL GOVERNMENT SELLING PRICES(1) OF KEY FOREIGN CRUDE OILS
(Dollars/Barrel)

		1979			1980		1981	
		1 Jan.	1 Apr.	1 July	1 Jan.	1 June	19 Feb.	1 Nov.
					PERSIAN/ARABIAN CRUDES			
Saudi Arabia								
Arab Light	34°	13.34	14.55	18.00	26.00	28.00	32.00	34.00
Arab Berri	39	14.06	16.47	21.32	27.52	29.52	33.52	35.60
Arab Medium	31	12.89	14.05	17.54	25.45	27.45	31.45	33.00
Arab Heavy	27	12.51	13.64	17.17	25.00	27.00	31.00	31.50
Iran								
Iran Light	34	13.45	16.57	22.00(e)	28.50	35.37	37.00	34.60
Iran Heavy	31	13.06	16.04	19.90(e)	27.77	34.37	36.00	33.40
Kuwait								
Kuwait	31	12.83	15.80	19.49	25.50	29.50	35.50	33.00
Abu Dhabi								
Murban	39	14.10	17.10	21.56	27.56	31.56	36.56	35.70
Umm Shaif	37	13.78	16.88	21.36	27.36	31.36	36.36	35.50
Zakum	40	14.01	17.01	21.46	27.46	31.46	36.46	35.60
Iraq								
Basrah Light	35	13.29	15.70	19.96	25.96	29.96	35.96	34.67
Kirkuk	36	13.52	15.95	21.25	28.18	30.18	37.50	35.11
Qatar								
Dukhan	44	14.03	17.04	21.42	27.42	31.42	37.42	35.65
Marine	36	13.77	16.85	21.23	27.23	31.23	37.23	35.50
Oman								
Oman	36	13.65(e)	14.88(e)	N.A.	30.26	35.56	37.56	34.06
					MEDITERRANEAN AND AFRICAN CRUDES			
Libya								
Brega	40	14.69	18.25	23.45	34.67	36.67	41.00	37.50
Nigeria								
Bonny	37	14.80	18.50	23.49	29.99	36.71	40.02	36.52
					OTHER CRUDES			
Indonesia								
Sumatra Light	34	14.23(e)	15.51(e)	N.A.	27.50	31.50	35.00	35.00
Venezuela								
Tia Juana	26	13.36	15.76	19.31	25.20	29.28	32.88	32.88
Tia Juana	31	14.22	16.70	20.90	26.90	32.40	36.00	35.00
Oficina	34	14.69	17.21	22.45	28.75	34.25	38.06	37.06
Ecuador								
Oriente	30	13.18	20.60	N.A.	31.00	N.A.	39.30(e)	33.15

(e) Estimates by Petroleum Intelligence Weekly.

[1] These are the governments' official prices applicable to sales to third parties and to crude sold back to companies still retaining an equity interest in Middle East oil producing ventures. Some prices are retroactive to prior dates.

N.A. Not Available

Source: Petroleum Intelligence Weekly.

January 1982

AVERAGE U.S. RETAIL GASOLINE PRICES[1] FOR SELECTED CITIES
(Cents per gallon)

	1920		1930		1940		1950	
	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)
Average U.S.	00.09	29.83	03.79	19.95	05.66	18.41	06.68	26.76
Alabama, Birmingham	—	30.04	04.75	20.50	08.25	21.71	08.50	29.33
Arizona, Phoenix	—	32.50	04.00	20.71	06.25	21.25	06.50	26.47
Arkansas, Little Rock	—	30.42	05.00	17.63	07.75	20.83	08.00	29.17
California, Los Angeles	—	—	—	—	—	—	—	—
California, San Francisco	—	24.17	03.00	20.00	04.25	17.88	06.00	25.12
Colorado, Denver	01.00	31.42	04.00	19.50	05.25	18.38	07.50	26.46
Connecticut, Hartford	—	33.00	02.00	19.13	04.25	14.48	05.50	23.63
Delaware, Wilmington	—	—	—	—	—	—	—	—
District of Columbia	—	29.46	02.00	17.23	03.25	15.08	05.50	25.36
Florida, Miami[3]	—	29.25	06.00	21.50	08.25	19.33	08.50	28.03
Georgia, Atlanta	—	30.04	06.00	22.17	07.25	20.42	08.50	29.71
Idaho, Boise	—	33.63	04.83	26.41	06.35	24.18	07.50	30.65
Illinois, Chicago	—	27.17	03.00	18.17	04.25	15.58	04.50	23.30
Indiana, Indianapolis	—	—	—	—	—	—	—	—
Iowa, Des Moines	—	27.42	03.00	18.33	04.25	16.78	05.50	25.08
Kansas, Wichita	—	26.80	03.00	15.30	04.25	14.99	06.50	24.70
Kentucky, Louisville	—	—	—	—	—	—	—	—
Louisiana, New Orleans	—	27.75	05.08	15.17	08.25	20.66	10.50	30.17
Maine, Portland	—	32.71	04.00	20.47	05.25	16.02	07.50	25.76
Maryland, Baltimore	—	29.58	04.00	18.77	05.25	17.88	06.50	25.74
Massachusetts, Boston	—	32.63	02.00	17.96	04.25	14.19	04.50	24.18
Michigan, Detroit	—	28.12	03.00	18.28	04.25	15.53	04.50	25.17
Minnesota, Twin Cities	—	28.49	03.00	19.57	04.92	18.36	06.50	26.87
Mississippi, Jackson	—	—	—	—	—	—	—	—
Missouri, St. Louis.	00.50	27.58	02.50	17.07	04.25	16.43	04.50	23.04
Montana, Great Falls	—	—	—	—	—	—	—	—
Nebraska, Omaha	—	27.25	04.00	20.08	06.25	17.97	07.42	26.75
Nevada, Reno	—	32.33	04.00	25.00	05.25	20.88	07.00	28.75
New Hampshire, Manchester	—	32.04	04.00	21.12	05.25	16.02	05.50	24.97
New Jersey, Newark	—	29.88	02.08	17.12	04.25	15.78	04.50	23.18
New Mexico, Albuquerque	02.00	32.25	05.00	21.00	06.75	19.92	09.00	30.25
New York, Buffalo	—	30.92	02.00	18.07	05.25	16.30	05.50	26.15
New York, New York	—	31.92	02.00	17.36	05.25	16.11	05.50	26.50
North Carolina, Charlotte	—	31.33	05.00	20.94	07.25	20.32	08.50	29.37
North Dakota, Fargo	—	30.99	03.00	21.40	05.25	19.95	05.50	27.01
Ohio, Cincinnati	—	—	—	—	—	—	—	—
Ohio, Cleveland	—	—	—	—	—	—	—	—
Oklahoma, Tulsa	—	27.75	04.00	19.25	05.25	14.58	08.00	26.75
Oregon, Portland	01.00	26.79	04.00	20.96	06.25	20.38	07.50	27.98
Pennsylvania, Philadelphia	—	32.00	03.50	20.58	05.25	15.49	06.50	25.19
Rhode Island, Providence	—	32.63	02.00	17.48	04.25	14.66	05.50	24.08
South Carolina, Charleston	—	29.17	06.00	20.86	07.25	20.10	08.00	28.07
South Dakota, Huron	—	28.73	04.00	20.03	05.25	19.83	05.50	26.73
Tennessee, Memphis	—	29.00	05.00	19.04	08.25	22.22	08.50	28.22
Texas, Dallas	—	—	—	—	—	—	—	—
Texas, El Paso	—	—	—	—	—	—	—	—
Texas, Houston	—	29.13	04.00	18.83	05.25	17.17	05.50	24.00
Utah, Salt Lake City	—	31.88	03.50	22.67	05.25	19.88	05.50	24.42
Vermont, Burlington	—	32.21	04.00	21.86	05.25	16.48	06.50	26.86
Virginia, Norfolk	—	30.08	05.00	19.86	06.25	20.38	07.50	27.33
Washington, Seattle	—	—	—	—	—	—	—	—
Washington, Spokane	—	28.92	03.00	23.83	06.25	21.92	08.00	30.63
West Virginia, Charleston	—	30.33	04.00	20.46	06.25	20.68	06.50	29.23
Wisconsin, Milwaukee	—	27.35	02.00	17.43	05.25	19.15	05.50	24.90
Wyoming, Cheyenne	—	—	—	—	—	—	—	—

---

[1] Regular grade gasoline at full service stations.

[2] Federal, state and local

[3] Prices prior to 1970 are for Jacksonville.

SOURCE: Data for 1920-1950, Texaco Inc.; 1960-Present, Platt's Oilgram Price Service.

AVERAGE U.S. RETAIL GASOLINE PRICES[1] FOR SELECTED CITIES
(Cents per gallon)

	1960		1970		1971		1972	
	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)
Average U.S.	10.14	31.13	11.14	35.69	11.23	36.43	11.67	36.13
Alabama, Birmingham	12.00	31.23	12.00	35.23	12.00	35.62	11.00	36.79
Arizona, Phoenix	09.00	26.57	11.00	35.07	11.00	35.90	11.00	35.40
Arkansas, Little Rock	10.50	29.48	11.50	34.32	11.50	35.57	11.50	34.65
California, Los Angeles	10.00	29.57	11.00	34.15	11.00	35.32	11.00	34.47
California, San Francisco	10.00	32.23	11.00	35.82	11.00	35.82	11.00	35.30
Colorado, Denver	10.00	33.40	11.00	33.73	11.00	36.48	11.00	35.15
Connecticut, Hartford	10.00	29.32	12.00	36.98	12.00	37.82	14.00	37.65
Delaware, Wilmington	09.00	29.07	11.00	35.73	11.00	36.48	12.00	38.06
District of Columbia	10.00	30.32	11.00	35.73	11.00	36.05	12.00	37.65
Florida, Miami[3]	11.00	31.40	11.00	35.07	12.00	34.65	12.00	35.98
Georgia, Atlanta	10.50	31.87	10.50	35.01	11.50	36.23	11.50	36.15
Idaho, Boise	10.00	37.42	11.00	35.07	12.00	34.98	12.50	35.11
Illinois, Chicago	09.00	31.90	11.50	38.62	11.50	37.60a	11.50	36.36
Indiana, Indianapolis	10.00	30.73	12.00	37.23	12.00	37.57	12.00	35.56
Iowa, Des Moines	10.00	31.57	11.00	35.32	11.00	36.32	11.00	37.23
Kansas, Wichita	09.00	29.15	11.00	32.98	11.00	32.98	11.00	32.40
Kentucky, Louisville	11.00	32.80	11.00	36.65	11.00	37.48	13.00	37.28
Louisiana, New Orleans	11.00	29.07	12.00	35.73	12.00	35.57	12.00	34.06
Maine, Portland	11.00	29.07	12.00	37.73	13.00	38.98	13.00	37.40
Maryland, Baltimore	10.00	31.65	11.00	35.65	11.00	36.07	13.00	37.65
Massachusetts, Boston	09.50	26.98	10.50	35.73	11.50	36.57	11.50	35.98
Michigan, Detroit	10.00	30.93	11.00	33.82	11.00	34.35	11.00	34.23
Minnesota, Twin Cities	09.00	30.03	11.00	37.15	11.00	37.07	11.00	37.06
Mississippi, Jackson	11.00	32.23	12.00	35.48	13.80	37.52	12.00	34.91
Missouri, St. Louis	08.50	27.15	09.00	34.07	09.00	36.15	11.00	35.65
Montana, Great Falls	10.00	36.90	11.00	36.36*	11.00	36.57	11.00	35.23
Nebraska, Omaha	11.00	32.53	12.50	37.82	12.50	37.40	12.50	37.48
Nevada, Reno	10.00	38.00	11.00	38.23	12.00	37.40	10.00	39.02
New Hampshire, Manchester	11.00	30.07	12.00	36.40	13.00	38.23	13.00	37.65
New Jersey, Newark	09.00	28.32	11.00	37.40	11.00	38.07	12.00	36.32
New Mexico, Albuquerque	10.50	32.90	11.00	36.73	11.00	36.90	11.00	36.48
New York, Buffalo	10.00	27.92	11.00	36.11*	11.00	36.28a	12.00	37.15
New York, New York	10.00	31.40	11.00	36.93*	12.00	39.18a	12.00	44.56
North Carolina, Charlotte	11.00	31.03	13.00	35.32	13.00	37.36	13.00	37.31
North Dakota, Fargo	10.00	32.26	11.00	35.52	11.00	37.15	11.00	32.23
Ohio, Cincinnati	11.00	31.40	11.00	36.65	11.00	37.90	11.00	37.90
Ohio, Cleveland	11.00	32.32	11.00	36.65	11.00	37.90	11.00	37.80
Oklahoma, Tulsa	10.50	30.48	10.50	35.07	10.50	35.07	10.58	34.73
Oregon, Portland	10.00	33.65	11.00	35.32	13.00	35.82	11.00	35.48
Pennsylvania, Philadelphia	09.00	28.48	11.75	36.48	12.00	37.23	12.00	36.74
Rhode Island, Providence	10.58	27.06	12.00	36.23	12.00	36.90	12.00	36.15
South Carolina, Charleston	11.00	30.94	11.00	34.32	11.00	35.73	12.00	36.65
South Dakota, Huron	10.00	34.07	11.00	37.15	11.00	36.23	11.00	32.48
Tennessee, Memphis	11.00	29.65	11.00	35.57	11.00	35.48	11.00	35.48
Texas, Dallas	09.00	29.23	09.00	32.73	09.00	33.90	09.00	33.15
Texas, El Paso	09.00	28.88	09.00	34.73	09.00	36.90a	09.00	35.90
Texas, Houston	09.00	29.32	09.00	32.23	09.00	32.82	09.00	32.34
Utah, Salt Lake City	10.00	30.90	11.00	34.32	11.00	34.98	11.00	35.56
Vermont, Burlington	10.50	33.40	12.00	38.65	13.00	39.98	13.00	40.23
Virginia, Norfolk	10.50	31.23	11.00	35.57	11.00	35.23	13.00	36.90
Washington, Seattle	10.50	29.57	13.00	36.40	13.00	36.73	13.00	36.35
Washington, Spokane	10.50	36.73	13.00	36.40	13.00	36.57	13.00	35.95
West Virginia, Charleston	11.00	31.32	11.00	35.73	12.50	37.73	12.50	38.40
Wisconsin, Milwaukee	10.00	30.98	11.00	33.15	11.00	34.48	11.00	33.73
Wyoming, Cheyenne	10.00	35.98	11.00	36.15	11.00	36.73	11.00	34.40

---

[1] Regular grade gasoline at full service stations.

[2] Federal, state and local

[3] Prices prior to 1970 are for Jacksonville.

* End of year

a Excludes general sales tax

SOURCE: Platt's Oilgram Price Service

July 1978

AVERAGE U.S. RETAIL GASOLINE PRICES[1] FOR SELECTED CITIES
(Cents per gallon)

	1973		1974		1975		1976	
	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)
Average U.S.	11.94	38.82	12.00	52.41	11.77	57.22	12.04	59.47
Alabama, Birmingham	12.00	38.57	11.00	51.67	11.00	53.15	11.83	58.25
Arizona, Phoenix	11.00	38.28	11.00	51.32	12.00	57.73	12.00	60.48
Arkansas, Little Rock	11.67	36.98	12.50	50.66	12.50	57.34	12.50	60.32
California, Los Angeles	11.55	38.0[illegible]	11.55	52.28	11.00	57.88	12.38	60.49
California, San Francisco	11.55	39.0[illegible]	11.55	53.30	11.00	59.46	12.42	61.49
Colorado, Denver	11.00	38.87	11.00	52.25	11.00	58.18	11.00	61.23
Connecticut, Hartford	14.00	40.98	14.00	54.63	14.00	57.57	14.42	59.99
Delaware, Wilmington	12.42	38.81	13.00	50.98	13.00	56.68	13.00	57.32
District of Columbia	12.00	39.07	12.00	54.33	12.00	58.48	12.00	60.40
Florida, Miami[3]	12.00	38.15	12.00	51.31	12.00	54.98	12.00	57.15
Georgia, Atlanta	12.50	38.57	12.50	52.59	11.50	58.23	12.30	58.99
Idaho, Boise	12.50	39.95	12.50	53.34	12.50	59.82	12.92	62.22
Illinois, Chicago	12.91	40.61	13.65	54.74	11.50	58.60	11.50	60.90
Indiana, Indianapolis	12.00	39.26	12.00	53.17	12.00	59.08	12.00	59.70
Iowa, Des Moines	11.00	38.45	11.00	51.17	11.00	57.32	11.00	60.33
Kansas, Wichita	11.00	37.78	11.00	51.17	11.00	57.32	11.42	61.33
Kentucky, Louisville	13.00	40.31	13.00	53.83	13.00	58.20	13.00	61.25
Louisiana, New Orleans	12.00	36.48	12.00	49.74	12.00	56.09	12.00	60.40
Maine, Portland	14.83	40.15	14.00	54.18	13.00	56.82	13.00	58.73
Maryland, Baltimore	13.00	39.23	13.00	51.21	13.00	56.70	13.00	58.48
Massachusetts, Boston	11.50	39.07	11.50	52.40	12.00	55.98	12.50	58.23
Michigan, Detroit	12.83	39.53	13.00	53.86	13.00	59.42	13.71	57.65
Minnesota, Twin Cities	11.00	39.03	11.00	52.17	11.33	58.35	13.00	61.73
Mississippi, Jackson	13.80	38.48	13.80	52.09	13.00	54.17	13.00	57.15
Missouri, St. Louis	11.00	39.20	11.00	52.17	11.00	57.65	11.00	59.48
Montana, Great Falls	11.50	39.95	11.00	53.17	11.13	59.42	11.75	60.85
Nebraska, Omaha	12.50	40.03	12.50	53.17	12.50	59.40	12.50	63.15
Nevada, Reno	12.00	41.73	12.00	54.38	10.00	59.03	10.00	59.08
New Hampshire, Manchester	13.00	40.07	13.00	54.48	13.00	56.48	13.00	59.40
New Jersey, Newark	12.00	38.57	12.00	52.30	12.00	54.73	12.00	55.65
New Mexico, Albuquerque	11.00	38.29	11.00	52.65	11.00	58.98	11.00	59.53
New York, Buffalo	14.10	40.07	14.35	55.38	12.00	58.65	13.31	61.37
New York, New York	15.20	43.73	15.55	59.75	12.00	61.15	14.08	61.81
North Carolina, Charlotte	13.00	39.32	13.00	51.99	13.00	56.76	13.00	60.42
North Dakota, Fargo	11.00	38.96	11.00	52.29	11.00	58.32	11.00	62.23
Ohio, Cincinnati	11.00	38.65	11.00	53.36	11.00	57.19	11.00	57.23
Ohio, Cleveland	11.00	38.65	11.00	53.36	11.00	57.19	11.00	57.23
Oklahoma, Tulsa	10.58	37.53	10.58	50.33	10.58	56.44	10.53	59.46
Oregon, Portland	11.00	38.39	11.00	51.70	11.00	55.50	11.00	57.23
Pennsylvania, Philadelphia	12.00	37.90	12.33	52.88	13.00	53.90	13.00	56.73
Rhode Island, Providence	12.00	38.32	12.00	52.57	13.17	55.90	14.00	58.57
South Carolina, Charleston	13.50	38.40	13.50	52.88	12.00	54.39	12.00	57.90
South Dakota, Huron	11.00	38.53	11.00	52.23	11.17	58.40	12.00	60.98
Tennessee, Memphis	11.00	37.48	11.00	50.51	11.00	57.17	11.00	59.65
Texas, Dallas	09.00	34.37	09.00	47.17	09.00	53.53	09.00	56.4
Texas, El Paso	09.00	36.29	09.00	47.98	09.00	55.95	09.00	57.40
Texas, Houston	09.00	33.90	09.00	47.28	09.00	52.40	09.00	56.40
Utah, Salt Lake City	11.84	37.37	11.00	50.17	11.00	56.32	11.00	58.45
Vermont, Burlington	13.00	41.73	13.00	55.68	13.00	58.40	13.00	59.65
Virginia, Norfolk	13.00	39.48	13.00	52.73	13.00	56.23	13.00	60.07
Washington, Seattle	13.00	39.42	13.00	52.22	13.00	57.18	13.00	59.98
Washington, Spokane	13.00	39.07	13.00	52.72	13.00	56.68	13.00	60.13
West Virginia, Charleston	12.83	39.56	12.50	51.23	12.50	57.57	12.50	59.07
Wisconsin, Milwaukee	11.00	38.37	11.00	52.13	11.00	58.15	11.00	58.40
Wyoming, Cheyenne	11.00	39.12	11.00	53.17	11.00	59.32	11.00	61.44

---

[1] Regular grade gasoline at full service stations.

[2] Federal, state and local

[3] Prices prior to 1970 are for Jacksonville.

SOURCE: Platt's Oilgram Price Service

Section VI
Table 12c

AVERAGE U.S. RETAIL GASOLINE PRICES[1] FOR SELECTED CITIES
(Cents per gallon)

	1977		1978	
	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)
Average U.S.	12.37	63.07	12.62	65.71
Alabama, Birmingham	12.00	64.00	12.00	65.90
Arizona, Phoenix	12.00	63.65	12.00	67.70
Arkansas, Little Rock	12.50	64.40	12.50	66.20
California, Los Angeles	14.30	64.23	14.30	68.00
California, San Francisco	14.40	65.15	14.40	69.10
Colorado, Denver	11.00	64.07	11.00	66.70
Connecticut, Hartford	15.00	63.83	15.00	67.80
Delaware, Wilmington	13.67	60.07	14.30	61.70
District of Columbia	12.00	64.31	14.00	66.30
Florida, Miami	12.00	58.82	12.00	62.10
Georgia, Atlanta	13.41	63.65	13.41	65.90
Idaho, Boise	13.50	65.48	13.50	68.50
Illinois, Chicago	14.33	65.74	17.90	70.10
Indiana, Indianapolis	12.00	62.74	12.00	67.70
Iowa, Des Moines	11.00	64.79	11.00	67.70
Kansas, Wichita	12.00	63.49	12.00	65.70
Kentucky, Louisville	13.00	64.90	13.00	66.30
Louisiana, New Orleans	12.00	63.74	12.00	66.50
Maine, Portland	13.00	62.74	13.00	65.20
Maryland, Baltimore	13.00	62.46	13.00	65.30
Massachusetts, Boston	12.50	61.16	12.50	62.50
Michigan, Detroit	14.70	62.07	14.70	65.30
Minnesota, Twin Cities	13.00	65.62	13.00	67.80
Mississippi, Jackson	13.00	62.29	13.00	64.70
Missouri, St. Louis	11.00	63.40	11.00	65.30
Montana, Great Falls	11.84	65.44	12.00	69.10
Nebraska, Omaha	12.83	66.15	13.50	68.70
Nevada, Reno	10.00	63.92	10.00	67.80
New Hampshire, Manchester	13.33	62.98	14.00	65.40
New Jersey, Newark	12.00	59.40	12.00	60.90
New Mexico, Albuquerque	11.00	63.59	11.00	66.30
New York, Buffalo	15.15	64.61	15.15	66.70
New York, New York	17.00	64.31	17.00	66.10
North Carolina, Charlotte	13.00	61.95	13.00	64.00
North Dakota, Fargo	11.33	66.40	12.00	68.80
Ohio, Cincinnati	11.00	60.65	11.00	62.50
Ohio, Cleveland	11.00	60.40	11.00	63.40
Oklahoma, Tulsa	10.50	63.74	10.50	66.70
Oregon, Portland	11.00	61.49	11.00	65.60
Pennsylvania, Philadelphia	13.00	61.40	13.00	61.00
Rhode Island, Providence	14.00	62.15	14.00	63.70
South Carolina, Charleston	12.33	61.23	13.00	62.70
South Dakota, Huron	12.00	63.87	12.00	66.70
Tennessee, Memphis	11.00	64.07	11.00	66.80
Texas, Dallas	09.00	59.90	09.00	61.90
Texas, El Paso	09.00	60.65	09.00	63.40
Texas, Houston	09.00	60.15	09.00	62.50
Utah, Salt Lake City	11.00	60.94	12.00	63.70
Vermont, Burlington	13.00	61.98	13.00	64.10
Virginia, Norfolk	13.00	63.98	13.00	66.40
Washington, Seattle	14.00	64.23	15.00	69.20
Washington, Spokane	14.00	63.87	15.00	69.00
West Virginia, Charleston	12.50	63.14	14.10	64.00
Wisconsin, Milwaukee	11.00	61.40	11.00	63.40
Wyoming, Cheyenne	11.00	65.75	11.90	68.90

Note:

The list of selected cities has been changed. Table 12d, which follows, lists the cities now reported.

---

[1] Regular grade gasoline at full service stations.
[2] Federal, state and local

SOURCE: Platt's Oilgram Price Service

AVERAGE U.S. RETAIL GASOLINE PRICES[1] FOR SELECTED CITIES
(Cents per gallon)

	1979		1980	
	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)	Total Gasoline Taxes[2]	Service Station Price (Including Taxes)
Average U.S.	13.46	87.79	14.37	121.72
Alabama, Birmingham	12.00	85.54	13.58	120.25
Arizona, Phoenix	12.00	86.08	12.00	120.32
Arizona, Tucson	12.00	85.04	12.00	118.59
California, Bakersfield	16.21	91.96	18.14	126.14
California, Fresno	16.21	91.97	18.13	125.99
California, Los Angeles	16.19	91.68	18.07	124.84
California, Sacramento	16.22	92.16	18.16	126.47
California, San Diego	16.18	91.60	18.15	126.32
California, San Francisco	16.20	91.82	18.15	126.39
California, Stockton	16.18	91.59	18.10	125.35
Colorado, Denver	11.00	86.73	11.00	121.27
Connecticut, New Haven	15.00	87.85	15.00	123.80
District of Columbia	13.29	88.10	14.17	124.06
Florida, Miami	12.00	85.31	12.00	120.94
Florida, Tampa/St. Pete	22.00	96.78	12.00	121.33
Georgia, Atlanta	14.63	88.92	16.02	125.18
Idaho, Boise	13.50	89.66	13.50	122.17
Illinois, Chicago	19.83	94.34	21.12	130.39
Indiana, Indianapolis	15.41	88.71	17.04	124.40
Iowa, Des Moines	13.25	89.00	14.00	124.41
Kentucky, Louisville	13.00	86.42	13.00	119.88
Louisiana, New Orleans	12.00	86.70	12.00	120.90
Maryland, Baltimore	13.00	85.09	13.00	121.51
Massachusetts, Boston	12.50	85.35	13.11	119.82
Michigan, Detroit	18.12	92.00	19.50	128.00
Nebraska, Omaha	13.92	90.35	14.96	124.49
Nevada, Las Vegas	12.00	88.27	12.00	122.29
New Jersey, Newark	12.00	85.88	12.00	120.03
New Mexico, Albuquerque	11.00	85.10	11.50	119.65
New York, Long Island	17.52	92.30	19.73	126.10
New York, Rochester	17.29	88.83	19.70	125.72
Minnesota, Minneapolis	13.00	90.52	14.38	124.27
Missouri, Kansas City	11.00	86.91	10.99	118.90
Missouri, St. Louis	11.00	86.70	11.00	119.28
North Carolina, Charlotte	13.00	84.54	13.00	122.22
Ohio, Cincinnati	11.00	86.06	11.00	118.28
Oregon, Portland	12.00	86.56	12.00	119.26
Pennsylvania, Philadelphia	13.97	86.98	15.00	122.94
Pennsylvania, Pittsburgh	13.97	87.13	15.00	122.44
Tennessee, Memphis	11.00	87.19	11.00	121.50
Texas, El Paso	9.00	81.58	9.00	115.05
Texas, Houston	9.00	81.61	9.00	117.81
Utah, Salt Lake City	13.00	88.36	13.00	121.66
Virginia, Norfolk	13.00	85.11	14.01	122.64
Wisconsin, Milwaukee	11.00	85.81	12.37	120.39
Washington, Seattle	15.51	88.53	16.00	122.30
Washington, Spokane	15.51	89.14	16.00	123.34

---

[1] Regular grade gasoline at full service stations. Average differential between regular leaded and regular unleaded was 4.17¢/gal.

[2] Federal, state and local

Source: Platt's/Lundberg Summary taken from Platt's Oil Price Handbook and Oilmanac

September 1981

COST OF U.S. PETROLEUM IMPORTS
(f.a.s. value)

Year	Quantity[1]	Total Value	Value Per Barrel
	(mmb)	(mm$)	
1970	1,353	$ 2,928	$ 2.16
1971	1,565	3,613	2.31
1972	1,874	4,631	2.47
1973	2,470	8,149	3.30
1974	2,411	26,073	10.81
1975	2,382	26,664	11.19
1976	2,850	34,614	12.15
1977	3,192	44,071	13.81
1978	2,903	42,188	14.12
1979	3,194	59,805	18.72
1980	2,566	78,637	30.60

---

(1) Includes imports into the Strategic Petroleum Reserve and the U.S. Virgin Islands.

Source: U.S. Department of Commerce, Bureau of the Census, Summary of the U.S. Export and Import Merchandise Trade

SECTION VII. DEMAND

Table 1. Estimated World Demand for Refined Petroleum Products by Area
Table 2. Estimated World Demand for Refined Petroleum Products by Area
Table 3. Total U.S. Supply and Demand for All Oils
Table 4. U.S. Supply and Demand for Total Gasoline
Table 5. Total U.S. Supply and Demand for Motor Gasoline
Table 6. Total U.S. Supply and Demand for Distillate Fuel Oil
Table 7. Total U.S. Supply and Demand for Residual Fuel Oil
Table 8. Sales of Distillate and Residual Fuel Oil to Electric Utilities
Table 9. Motor Gasoline Consumption in the United States
Table 10. U.S. Sales of Distillate Fuel Oil by State
Table 11. U.S. Sales of Distillate Fuel Oil by Uses
Table 12. U.S. Sales of Residual Fuel Oil (all uses) by State
Table 13. U.S. Sales of Residual Fuel Oil by Uses
Table 14. Total U.S. Supply and Demand for Jet Fuel — Naphtha Type
Table 15. Total U.S. Supply and Demand for Jet Fuel — Kerosine Type
Table 16. Total U.S. Supply and Demand for Kerosine
Table 17. U.S. Total Supply and Demand for Natural Gas Liquids and Liquefied Refinery Gases
Table 18. Total U.S. Supply and Demand for Lubricants

BEST AVAILABLE COPY

ESTIMATED WORLD DEMAND FOR REFINED PETROLEUM PRODUCTS BY AREA
(Thousands of barrels)

Year	WESTERN HEMISPHERE				Middle East	Africa	Asia	Western Europe	Total Free World	Communist¹ Nations	Total World	U.S. as a % of Free World Total	U.S. as a % of World Total	Year
	United States	Canada	Latin America	Total										
1950	2,392,974	118,383	262,544	2,773,901	34,683	62,244	136,628	382,750	3,390,206	N.A.	N.A.	70.6%	N.A.	1950
1951	2,578,766	133,884	298,099	3,010,749	44,053	75,137	164,829	460,604	3,755,372	N.A.	N.A.	68.7	N.A.	1951
1952	2,668,134	149,244	318,351	3,135,729	51,575	71,424	184,416	504,968	3,948,112	N.A.	N.A.	67.6	N.A.	1952
1953	2,776,778	163,237	328,243	3,268,258	57,145	75,196	204,607	550,652	4,155,858	N.A.	N.A.	66.8	N.A.	1953
1954	2,833,896	180,887	355,648	3,370,431	61,114	93,833	231,493	644,159	4,401,030	N.A.	N.A.	64.4	N.A.	1954
1955	3,089,348	200,142	353,450	3,642,940	67,243	97,860	261,296	715,283	4,784,622	N.A.	N.A.	64.6	N.A.	1955
1956	3,214,651	230,435	394,541	3,839,627	67,785	105,475	286,546	836,671	5,136,104	N.A.	N.A.	62.6	N.A.	1956
1957	3,221,949	232,667	429,009	3,883,625	75,325	116,640	331,923	841,901	5,249,414	N.A.	N.A.	61.4	N.A.	1957
1958	3,327,993	241,692	487,366	4,057,051	140,515	111,666	354,485	983,139	5,646,856	N.A.	N.A.	58.9	N.A.	1958
1959	3,477,173	295,633	553,903	4,326,709	178,303	121,883	440,003	1,203,651	6,270,549	958,548	7,229,097	55.5	48.1%	1959
1960	3,585,820	306,865	581,292	4,473,977	209,473	129,494	540,687	1,407,121	6,760,752	1,058,000	7,818,752	53.0	45.9	1960
1961	3,641,280	315,565	633,170	4,590,015	219,092	152,970	632,167	1,625,344	7,219,588	1,205,194	8,424,782	50.4	43.2	1961
1962	3,796,029	334,661	684,935	4,815,625	241,572	157,354	716,991	1,871,923	7,803,465	1,294,308	9,097,773	48.6	41.7	1962
1963	3,921,364	359,651	703,155	4,984,170	253,430	175,683	857,292	2,150,829	8,421,404	1,413,898	9,835,302	46.6	39.9	1963
1964	4,034,236	383,080	742,025	5,159,341	272,513	205,091	974,790	2,449,413	9,061,148	1,512,555	10,573,703	44.5	38.2	1964
1965	4,202,039	416,873	766,617	5,385,529	265,132	205,891	1,114,940	2,746,529	9,738,021	1,647,203	11,385,224	43.2	36.9	1965
1966	4,410,796	439,664	823,887	5,674,347	299,697	212,655	1,247,989	3,051,357	10,486,045	1,765,111	12,251,156	42.1	36.0	1966
1967	4,584,526	456,663	857,000	5,898,189	318,350	219,667	1,367,445	3,262,152	11,065,803	1,927,179	12,992,982	41.4	35.3	1967
1968	4,901,789	491,813	890,839	6,284,441	341,735	258,103	1,662,915	3,644,518	12,191,712	2,060,613	14,252,325	40.2	34.4	1968
1969	5,159,930	508,609	943,096	6,611,635	361,131	246,304	1,987,104	4,153,039	13,359,213	2,228,375	15,587,588	38.6	33.1	1969
1970	5,364,473	542,386	978,422	6,885,281	390,398	260,538	2,258,789	4,512,974	14,307,980	2,373,670	16,681,650	37.5	32.2	1970
1971	5,552,560	559,038	1,047,630	7,159,228	459,608	293,014	2,451,760	4,712,845	15,076,455	3,622,268	17,698,723	36.8	31.4	1971
1972	5,990,316	591,306	1,124,200	7,705,822	467,016	319,841	2,576,352	5,068,198	16,137,229	2,607,564	18,744,793	37.1	32.0	1972
1973	6,317,303	622,922	1,227,749	8,167,974	561,726	345,574	2,887,617	5,289,543	17,252,434	3,173,318	20,425,752	36.6	30.9	1973
1974[r]	6,078,239	635,142	1,276,790	7,990,171	586,216	337,707	2,848,143	4,993,590	16,755,836	3,034,212	19,790,048	36.3	30.7	1974[r]

[r] Revised
¹ Excludes Cuba
N.A. Not Available

Source: 1950-19[illegible], U.S. Bureau of Mines, World Petroleum Statistics Annual
1959-1973, U.S. Bureau of Mines, International Petroleum Annual
1974, U.S. Bureau of Mines, International Petroleum Annual

ESTIMATED WORLD DEMAND FOR REFINED PETROLEUM PRODUCTS BY AREA
(Thousands of barrels)

	WESTERN HEMISPHERE													
Year	United States	Canada	Latin America	Total	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations(1)	Total World	U.S. as a % of Free World Total	U.S. as a % of World Total	Year
1975	5,957,515	618,363	1,294,353	7,870,231	586,502	374,996	2,679,861	4,599,943	16,111,533	3,231,831	19,343,365	37.0	30.8	1975
1976	6,390,750	638,081	1,375,019	8,403,850	619,677	393,495	2,920,933	4,922,309	17,260,264	3,915,572	21,175,836	37.0	30.2	1976
1977	6,727,468	639,167	1,426,596	8,793,231	679,657	404,914	3,104,274	5,035,011	18,017,087	4,225,188	22,242,275	37.3	30.2	1977
1978	6,879,017	633,868	1,517,532	9,030,417	718,118	470,978	3,226,772	5,142,458	18,588,743	4,375,505	22,964,248	37.0	30.0	1978
1979(r)	6,758,340	698,975	1,620,600	9,007,915	545,675	496,400	3,447,425	5,475,000	19,042,415	4,584,400	23,626,815	35.5	28.6	1979 (r)
1980(p)	6,224,196	678,930	1,687,260	8,590,386	596,580	543,510	3,299,490	5,129,490	18,159,456	4,650,030	22,809,486	34.3	27.3	1980(p)

(r) Revised
(p) Preliminary
(1) Excludes Cuba

Source: 1975-1978: U.S. Department of Energy, Energy Information Administration, International Petroleum Annual
1979-1980: U.S. Energy Information Administration, United States; Rest of World, BP Statistical Review of the World Oil Industry

ESTIMATED WORLD DEMAND FOR REFINED PETROLEUM PRODUCTS BY AREA
(Thousands of barrels per day)

Year	WESTERN HEMISPHERE United States	Canada	Latin America	Total	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations¹	Total World	U.S. as a % of Free World Total	U.S. as a % of World Total	Year
1950	6,556	324	719	7,599	95	171	374	1,049	9,288	N.A.	N.A.	70.6%	N.A.	1950
1951	7,065	367	817	8,249	120	206	452	1,262	10,289	N.A.	N.A.	68.7	N.A.	1951
1952	7,290	408	870	8,568	141	195	504	1,379	10,787	N.A.	N.A.	67.6	N.A.	1952
1953	7,608	447	899	9,954	156	206	561	1,509	11,386	N.A.	N.A.	66.8	N.A.	1953
1954	7,764	496	974	9,234	168	257	634	1,765	12,058	N.A.	N.A.	64.4	N.A.	1954
1955	8,464	548	969	9,981	184	268	716	1,960	13,109	N.A.	N.A.	64.6	N.A.	1955
1956	8,783	630	1,078	10,491	185	288	783	2,286	14,033	N.A.	N.A.	62.6	N.A.	1956
1957	8,827	638	1,175	10,640	206	320	909	2,307	14,382	N.A.	N.A.	61.4	N.A.	1957
1958	9,118	662	1,335	11,115	385	306	971	2,694	15,471	N.A.	N.A.	58.9	N.A.	1958
1959	9,526	810	1,518	11,854	489	334	1,205	3,298	17,180	2,626	19,806	55.4	48.1%	1959
1960	9,797	839	1,588	12,224	572	354	1,477	3,845	18,472	2,891	21,363	53.0	45.9	1960
1961	9,976	865	1,735	12,576	600	419	1,732	4,453	19,780	3,302	23,082	50.4	43.2	1961
1962	10,400	917	1,877	13,194	662	431	1,964	5,128	21,379	3,546	24,925	48.6	41.7	1962
1963	10,743	985	1,927	13,655	694	481	2,349	5,893	23,072	3,874	26,946	46.6	39.9	1963
1964	11,023	1,047	2,027	14,097	745	560	2,663	6,692	24,757	4,133	28,890	44.5	38.2	1964
1965	11,513	1,142	2,100	14,755	781	564	3,055	7,525	26,680	4,512	31,192	43.2	36.9	1965
1966	12,084	1,205	2,257	15,546	821	583	3,419	8,360	28,729	4,836	33,565	42.1	36.0	1966
1967	12,560	1,251	2,349	16,160	872	602	3,746	8,937	30,317	5,280	35,597	41.4	35.3	1967
1968	13,393	1,344	2,434	17,171	934	705	4,543	9,958	33,311	5,630	38,941	40.2	34.4	1968
1969	14,137	1,393	2,585	18,115	989	675	5,444	11,378	36,601	6,105	42,706	38.6	33.1	1969
1970	14,697	1,486	2,681	18,864	1,070	714	6,188	12,364	39,200	6,503	45,703	37.5	32.2	1970
1971	15,213	1,531	2,871	19,615	1,259	803	6,717	12,912	41,306	7,184	48,490	36.8	31.4	1971
1972	16,367	1,616	3,072	21,055	1,276	874	7,039	13,847	44,091	7,124	51,215	37.1	32.0	1972
1973	17,308	1,707	3,363	22,378	1,539	947	7,911	14,492	47,267	8,694	55,961	36.6	30.9	1973
1974[r]	16,653	1,740	3,498	21,891	1,606	925	7,803	13,681	45,906	8,313	54,219	36.3	30.7	1974[r]

[r] Revised
¹ Excludes Cuba
N.A. Not Available

Source: 1950-1958, U.S. Bureau of Mines, World Petroleum Statistics Annual
1959-1973, U.S. Bureau of Mines, International Petroleum Annual
1974, U.S. Bureau of Mines, International Petroleum Annual

ESTIMATED WORLD DEMAND FOR REFINED PETROLEUM PRODUCTS BY AREA

(Thousands of barrels per day)

	WESTERN HEMISPHERE													
Year	United States	Canada	Latin America	Total	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations(1)	Total World	U.S. as a % of Free World Total	U.S. as a % of World Total	Year
1975	16,322	1,694	3,546	21,562	1,607	1,027	7,342	12,603	44,141	8,854	52,995	37.0	30.8	1975
1976	17,461	1,743	3,757	22,961	1,693	1,075	7,981	13,449	47,159	10,698	57,857	37.0	30.2	1976
1977	18,431	1,751	3,908	24,090	1,862	1,109	8,505	13,795	49,361	11,575	60,936	37.3	30.2	1977
1978	18,847	1,737	4,158	24,742	1,967	1,290	8,840	14,089	50,928	11,988	62,916	37.0	30.0	1978
1979(r)	18,516	1,915	4,440	24,871	1,495	1,360	9,445	15,000	52,171	12,560	64,731	35.5	28.6	1979(r)
1980(p)	17,006	1,855	4,610	23,471	1,630	1,485	9,015	14,015	49,616	12,705	62,321	34.3	27.3	1980(p)

(r) Revised

(p) Preliminary

(1) Exlcudes Cuba

Source: 1975-1978: U.S. Department of Energy, Energy Information Administration, International Petroleum Annual
1979-1980: U.S. Energy Information Administration, United States; Rest of World, BP Statistical Review of the World Oil Industry

TOTAL U.S. SUPPLY AND DEMAND FOR ALL OILS

(Thousands of barrels per day)

Year	PRODUCTION				IMPORTS			Other Refinery Input[1]	Total New Supply	Un-accounted for Crude Oil[2]	Processing Gain or Loss[3]	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products
	Crude Oil	Lease Con-densate	Natural Gas Liquids	Total	Crude Oil	Refined Products	Total										
1947	5.087	4/	362	5.449	267	170	437	2	5.888	+93	12	5.993	-14	6.007	69	451	5.487
1948	5.520	4/	401	5.921	353	161	514	1	6.436	+84	8	6.528	+293	6.235	69	368	5.798
1949	5.046	4/	430	5.476	421	225	646	1	6.123	+42	2	6.167	8	6.175	39	327	5.809
1950	5.407	4/	499	5.906	487	363	850	—	6.756	+98	2	6.856	56	6.912	51	305	6.556
1951	6.158	4/	561	6.719	490	354	844	1	7.564	+49	7	7.620	+101	7.519	32	422	7.065
1952	6.256	4/	611	6.867	573	379	952	1	7.820	+20	7	7.847	+108	7.739	17	432	7.290
1953	6.458	4/	654	7.112	648	386	1.034	1	8.147	+ 9	20	8.176	+142	8.034	24	402	7.608
1954	6.342	4/	691	7.033	656	396	1.052	1	8.086	+ 8	23	8.117	29	8.146	27	355	7.764
1955	6.807	4/	771	7.578	782	466	1.248	1	8.827	+ 9	34	8.870	—	8.870	38	368	8.464
1956	7.151	4/	800	7.951	934	502	1.436	1	9.388	+ 8	43	9.439	+179	9.260	47	430	8.783
1957	7.170	4/	808	7.978	1.022	552	1.574	1	9.553	+18	42	9.613	+167	9.446	51	568	8.827
1958	6.710	4/	807	7.517	953	747	1.700	1	9.218	N.A.	64	9.282	-140	9.422	29	275	9.118
1959[5]	7.053	4/	879	7.932	966	814	1.780	1	9.713	N.A.	86	9.799	+ 51	9.748	11	211	9.526
1960	7.035	4/	929	7.964	1.015	800	1.815	1	9.780	N.A.	146	9.926	83	10.009	9	202	9.798
1961	7.183	4/	991	8.174	1.045	872	1.917	—	10.091	N.A.	179	10.270	+111	10.159	9	174	9.976
1962	7.332	4/	1.021	8.353	1.126	956	2.082	—	10.435	N.A.	175	10.610	+ 32	10.578	9	169	10.400
1963	7.542	4/	1.098	8.640	1.131	992	2.123	—	10.763	N.A.	202	10.965	+ 4	10.961	10	208	10.743
1964	7.614	4/	1.155	8.769	1.198	1.060	2.258	—	11.027	N.A.	217	11.244	+ 10	11.234	10	201	11.023
1965	7.804	4/	1.210	9.014	1.238	1.230	2.468	—	11.482	N.A.	220	11.702	8	11.710	10	187	11.513
1966	8.295	4/	1.284	9.579	1.225	1.348	2.573	—	12.152	N.A.	246	12.398	+104	12.294	11	198	12.085
1967	8.811	4/	1.409	10.220	1.128	1.409	2.537	—	12.757	N.A.	292	13.049	+173	12.876	9	307	12.560
1968	8.660	435	1.504	10.599	1.290	1.550	2.840	9	13.448	+20	319	13.787	+152	13.635	11	231	13.393
1969	8.778	460	1.590	10.828	1.409	1.757	3.166	11	14.005	-7	335	14.333	48	14.381	12	232	14.137
1970	9.180	457	1.660	11.297	1.324	2.095	3.419	17	14.733	-21	359	15.071	+103	14.968	12	259	14.697
1971	9.032	430	1.694	11.156	1.681	2.244	3.925	17	15.098	+41	381	15.520	+ 71	15.449	12	224	15.213
1972	8.998	443	1.744	11.185	2.216	2.525	4.741	28	15.954	+28	388	16.370	-232	16.602	12	223	16.367
1973	8.784	424	1.738	10.946	3.244	3.012	6.256	30	17.232	+ 2	453	17.687	+135	17.552	13	231	17.308
1974[r]	8.375	399	1.688	10.462	3.477	2.635	6.112	36	16.610	-25	480	17.065	+179	16.886	13	221	16.652

---

r/ Revised

1/ Includes benzol, other hydrocarbons, and hydrogen

2/ Represents the difference between supply and indicated demand for crude petroleum, first reported separately in 1968, prior years include adjustments where available

3/ Beginning with 1960, processing gains are reported separately; prior years include adjustments to permit a balance between total new supply and total supply

4/ Separate data not available prior to 1968

5/ Data for this year and those for subsequent years are on a 50-state basis

Source: U.S. Bureau of Mines

July 1976

Section VII
Table 3

TOTAL U.S. SUPPLY AND DEMAND FOR ALL OILS
(Thousands of barrels per day)

	PRODUCTION				IMPORTS												
Year	Crude Oil	Lease Con-densate	Natural Gas Liquids	Total	Crude Oil (5)	Refined Products	Total (5)	Other Refinery Input(1)	Total New Supply	Un-accounted for Crude Oil(2)	Processing Gain or Loss(3)	Total Supply	Change in Stocks	Total Disposition of Primary Supply	Crude Oil Losses	Exports	Domestic Demand for Refined Products
1975	8,007	367	1,633	10,009	4,105	1,951	6,056	36	16,101	+ 16	460	16,577	+ 32	16,545	14	209	16,322
1976	7,776	355	1,604	9,735	5,287	2,026	7,313	38	17,086	+ 77	477	17,640	− 58	17,698	14	223	17,461
1977	7,875	370	1,618	9,863	6,594	2,193	8,787	50	18,721	− 6	524	19,239	+ 548	18,691	16	243	18,431
1978	8,353	355	1,567	10,275	6,194	2,008	8,202	53	18,692	− 57	496	19,131	− 94	19,225	16	362	18,847
1979	8,181	371	1,583	10,135	6,452	1,937	8,389	44	18,638	− 11	527	19,154	+ 153	19,001	16	471	18,516(4)
1980(p)	8,214	383	1,564	10,161	5,176	1,611	6,787	48	17,001	+ 73	596	17,670	+ 149	17,521	14	542	16,965

(p) Preliminary

(1) Includes penzol, other hydrocarbons, and hydrogen

(2) Represents the difference between supply and indicated demand for crude petroleum, first reported separately in 1968; prior years include adjustments where available.

(3) Beginning with 1960, processing gains are reported separately; prior years include adjustments to permit a balance between total new supply and total supply.

(4) Figures do not add due to independent rounding.

(5) Excludes oil imported to the strategic petroleum reserve.

Source: U.S. Energy Information Administration, Annual Petroleum Statements. 1980 December Statement

U.S. SUPPLY AND DEMAND FOR TOTAL GASOLINE

(Daily Averages in Thousands of Barrels)

	SUPPLY							DEMAND			
	Production										
		From NGL & LRG									
Year	From Crude Oil	At Refineries	Used in Other Gas Blends	Total[1]	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	2,042	191	71	2,306	1	2,307	92,303	- 1	2,308	130	2,178
1948	2,237	207	68	2,513	1	2,514	103,756	+32	2,482	102	2,380
1949	2,337	234	60	2,632	—	2,632	111,443	+21	2,611	108	2,503
1950	2,476	259	71	2,806	—	2,806	116,769	+14	2,792	68	2,724
1951	2,765	271	85	3,122	1	3,123	134,867	+28	3,095	110	2,985
1952	2,835	283	100	3,219	4	3,223	134,737	+ 1	3,222	99	3,123
1953	3,076	304	89	3,470	1	3,471	157,872	+64	3,407	104	3,303
1954	3,056	321	78	3,456	—	3,456	155,400	- 7	3,463	94	3,369
1955	3,302	344	116	3,764	1	3,765	165,433	+27	3,738	95	3,643
1956	3,447	368	88	3,904	4	3,908	187,271	+59	3,849	97	3,752
1957	3,466	411	62	3,940	8	3,948	196,776	+26	3,922	106	3,816
1958	3,492	375	76	3,944	38	3,982	186,760	-27	4,009	75	3,934
1959[2]	3,617	419	42	4,079	36	4,115	187,613	—	4,115	46	4,069
1960	3,670	455	34	4,160	27	4,187	194,774	+20	4,167	37	4,130
1961	3,679	464	55	4,199	29	4,228	195,830	+ 3	4,225	25	4,200
1962	3,802	501	35	4,338	38	4,376	190,138	+16	4,360	18	4,342
1963	3,873	521	58	4,452	44	4,496	190,937	+ 6	4,490	19	4,471
1964	3,924	583	32	4,539	29	4,568	193,633	+21	4,547	17	4,530
1965	4,022	618	30	4,670	27	4,697	183,058	-29	4,726	13	4,713
1966	4,241	645	25	4,911	43	4,954	194,177	+30	4,924	11	4,913
1967	4,366	671	20	5,057	42	5,099	207,980	+37	5,062	14	5,048
1968	4,576	708	17	5,301	59	5,360	211,526	+10	5,350	6	5,344
1969	4,816	725	16	5,557	62	5,619	217,392	+16	5,603	7	5,596

---

[1] Columns under production for the years 1947-1961 will not equal totals since totals include small quantities of benzol blended and (net) unfinished gasoline for those years.

[2] These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

U.S. SUPPLY AND DEMAND FOR TOTAL GASOLINE*
(Daily Averages in Thousands of Barrels)

	SUPPLY							DEMAND			
	Production										
		From NGL & LRG									
Year	From Crude Oil	At Refineries	Used in Other Gas Blends	Total	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1970	4,991	763	14	5,768	67	5,835	214,348	− 8	5,843	4	5,839
1971	5,240	781	13	6,034	59	6,093	223,771	+25	6,068	5	6,063
1972	5,501	826	12	6,339	68	6,407	217,149	−18	6,425	2	6,423
1973	5,757	815	8	6,580	132	6,712	213,417	− 11	6,723	5	6,718
1974	5,655	746	3	6,404	204	6,608	221,881(3)	+23	6,585	3	6,582
1975	5,807	748	3	6,558	184	6,742	238,002	+27	6,715	2	6,713
1976	6,111	763	3	6,877	131	7,006	234,272	−10	7,018	4	7,014
1977	6,307	673	2	6,982	218	7,200	257,623	+64	7,136	2	7,134
1978	6,476	639	2	7,117	190	7,307	241,002	−54	7,361	2	7,358
1979	6,317	528	44	6,889	181	7,070	239,919	− 3	7,073	—	7,073

---

(3) U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 228,262 thousand barrels. This figure was used to compute the 1975 stock change.

* Includes motor and aviation gasoline.

Source: U.S. Energy Information Administration, P.A.D. District Supply/Disposition Annual.

TOTAL U.S. SUPPLY AND DEMAND FOR MOTOR GASOLINE
(Daily Averages in Thousands of Barrels)

	SUPPLY				DEMAND			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1964(1)	4,399	29	4,428	185,766	+23	4,405	2	4,403
1965	4,537	27	4,564	174,717	−30	4,594	1	4,593
1966	4,798	43	4,841	186,393	+31	4,810	2	4,808
1967	4,956	42	4,998	200,055	+ 7	4,961	3	4,958
1968	5,215	59	5,274	204,496	+13	5,261	1	5,260
1969	5,484	62	5,546	211,199	+18	5,528	2	5,526
1970	5,714	67	5,781	209,255	− 5	5,786	1	5,785
1971	5,984	59	6,043	219,352	+28	6,015	1	6,014
1972	6,292	68	6,360	212,894	−18	6,378	1	6,377
1973	6,535	134	6,669	209,478	−10	6,679	4	6,675
1974	6,360	204	6,564	218,410(2)	+24	6,540	2	6,538
1975	6,520	184	6,704	234,978	+28	6,676	2	6,674
1976	6,841	130	6,971	231,432	−10	6,981	3	6,978
1977	7,033	217	7,250	257,623	+73	7,177	2	7,175
1978	7,169	190	7,359	237,979	−54	7,413	1	7,412
1979	6,852	181	7,034	237,200	− 1	7,034	0(3)	7,034
1980(p)	6,506	140	6,646	261,398	+66	6,580	1	6,579

(p) Preliminary

(1) Data prior to 1964 is not available on a comparable basis.

(2) U.S. Bureau of Mines altered its stock reporting as of January 1975. On the new basis, year-end 1974 stocks were 224,719 thousand barrels. This figure was used to compute the 1975 stock change.

(3) Totals do not add due to independent rounding.

Source: U.S. Energy Information Administration, Petroleum Statement, Annual and December issues.

TOTAL U.S. SUPPLY AND DEMAND FOR DISTILLATE FUEL OIL
(Daily Averages in Thousands of Barrels)

	SUPPLY							DEMAND			
	Production										
Year	Production	Transfers From Crude Oil	Transfers From Natural Gasoline Plants	Total	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	855	9	—	864	12	876	51,081	- 23	899	82	817
1948	1,037	9	—	1,046	7	1,053	71,429	+ 64	989	58	931
1949	934	7	—	941	5	946	75,207	+ 10	936	34	902
1950	1,093	7	—	1,100	7	1,107	71,948	- 10	1,117	35	1,082
1951	1,303	8	—	1,311	5	1,316	86,619	+ 29	1,287	62	1,225
1952	1,415	7	—	1,422	8	1,430	99,375	+ 35	1,395	92	1,303
1953	1,447	5	—	1,452	9	1,461	111,741	+ 35	1,426	89	1,337
1954	1,486	4	—	1,490	9	1,499	108,144	- 9	1,508	66	1,442
1955	1,651	3	2	1,656	12	1,668	111,333	+ 9	1,659	67	1,592
1956	1,819	4	2	1,825	14	1,839	133,961	+ 62	1,777	94	1,683
1957	1,832	4	2	1,838	23	1,861	149,449	+ 42	1,819	131	1,688
1958	1,730	2	2	1,734	41	1,775	125,101	- 67	1,842	52	1,790
1959[1]	1,860	3	2	1,865	48	1,913	151,164	+ 70	1,843	35	1,808
1960	1,823	3	4	1,830	35	1,865	138,455	- 34	1,899	27	1,872
1961	1,907	2	2	1,911	47	1,958	152,018	+ 37	1,921	19	1,902
1962	1,971	3	1	1,975	33	2,008	144,505	- 21	2,029	22	2,007
1963	2,095	2	1	2,098	25	2,123	156,677	+ 35	2,088	41	2,047
1964	2,028	2	1	2,031	32	2,063	155,846	- 2	2,065	15	2,050
1965	2,096	2	1	2,099	36	2,135	155,407	- 1	2,136	10	2,126
1966	2,150	2	3	2,155	38	2,193	154,096	- 4	2,197	12	2,185
1967[2]	2,205	2	—	2,207	51	2,258	159,703	+ 5	2,253	12	2,241
1968	2,297	2	—	2,299	131	2,430	173,158	+ 37	2,393	4	2,389
1969	2,324	2	—	2,326	139	2,465	171,714	- 4	2,469	3	2,466
1970	2,458	2	—	2,460	148	2,608	195,271	+ 65	2,543	3	2,540
1971	2,499	4	—	2,503	153	2,656	190,622	- 13	2,669	8	2,661
1972	2,633	3	—	2,636	181	2,817	154,319	- 99	2,916	3	2,913
1973	2,822	2	—	2,824	392	3,216	196,461	+115	3,101	9	3,092
1974	2,669	2	—	2,671	289	2,960	200,068[3]	+ 10	2,950	2	2,948

---

[1] These figures and those for subsequent years are on a 50 state basis.

[2] Production and stocks at gas processing plants are included in this and subsequent years.

[3] U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 223,717 thousand barrels. This figure was used to compute the 1975 stock change (Table 6a).

TOTAL U.S. SUPPLY AND DEMAND FOR DISTILLATE FUEL OIL
(Daily Averages in Thousands of Barrels)

	SUPPLY							DEMAND			
	Production										
Year	Production	Transfers From Crude Oil	Transfers From Natural Gasoline Plants	Total	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1975	2,653	2	1	2,656	155	2,811	208,833	− 41	2,852	1	2,851
1976	2,923	2	1	2,925	146	3,072	185,986	− 62	3,134	1	3,133
1977	3,277	2	—	3,281	250	3,531	250,295	+178	3,353	1	3,352
1978	3,167	1	—	3,168	173	3,341	216,463	− 93	3,435	3	3,432
1979(r)	3,153	1	—	3,154	197	3,351	228,729	+ 34	3,317	3	3,314
1980(p)	2,663	1	—	2,664	139	2,803	205,132	− 64	2,867	3	2,864

(r) Revised
(p) Preliminary

Source: U.S. Energy Information Administration, Petroleum Statement, Annual and December issues. 1980 December issue.

TOTAL U.S. SUPPLY AND DEMAND FOR RESIDUAL FUEL OIL
(Daily Averages In Thousands of Barrels)

	SUPPLY						DEMAND			
	Production									
Year	Production	Transfers From Crude Oil	Total	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1947	1,227	74	1,301	149	1,450	47,091	—	1,450	29	1,421
1948	1,311	18	1,329	146	1,475	64,021	+72	1,403	36	1,367
1949	1,164	13	1,177	206	1,383	60,193	-11	1,394	35	1,359
							-53	1,562	45	1,517
1950	1,165	15	1,180	329	1,509	40,750				
1951	1,285	17	1,302	327	1,629	42,853	+ 3	1,626	80	1,546
1952	1,240	17	1,257	351	1,608	48,706	+16	1,592	76	1,516
1953	1,233	15	1,248	360	1,608	49,370	+ 2	1,606	71	1,535
1954	1,142	16	1,158	354	1,512	52,105	+ 8	1,504	73	1,431
1955	1,151	15	1,166	417	1,583	39,174	-36	1,619	93	1,526
1956	1,165	18	1,183	445	1,628	44,491	+15	1,613	76	1,537
1957	1,138	38	1,176	475	1,651	59,959	+42	1,609	105	1,504
1958	995	30	1,025	499	1,524	59,508	- 1	1,525	70	1,455
1959[1]	953	20	973	610	1,583	53,501	-18	1,601	57	1,544
1960	907	11	918	637	1,555	44,870	-24	1,579	51	1,528
1961	865	10	875	667	1,542	44,869	—	1,542	39	1,503
1962	810	10	820	724	1,544	49,996	+14	1,530	35	1,495
1963	756	9	765	747	1,512	47,538	- 6	1,518	42	1,476
1964	729	10	739	808	1,547	40,403	-20	1,567	52	1,515
1965	736	10	746	946	1,692	56,214	+43	1,649	41	1,608
1966	723	10	733	1,032	1,765	61,196	+14	1,.51	35	1,716
1967	756	10	766	1,085	1,851	65,597	+ 5	1,846	60	1,786
1968	754	11	765	1,120	1,885	67,359	+ 5	1,880	54	1,826
1969	728	12	740	1,265	2,005	58,395	-19	2,024	46	1,978
1970	706	12	718	1,528	2,246	53,994	-12	2,258	54	2,204
1971	753	12	765	1,583	2,348	59,681	+16	2,332	36	2,296
1972	799	9	808	1,742	2,550	55,216	-12	2,562	33	2,529
1973	971	17	988	1,853	2,841	53,480	- 5	2,846	23	2,823
1974[1]	1,070	13	1,083	1,587	2,670	59,694[2]	+17	2,653	14	2,639

---

[1] These figures and those for subsequent years are on a 50 state basis.

[2] U.S. Bureau of Mines altered its stock reporting base as of January 1975. On the new basis, year-end 1974 stocks were 74,939 thousand barrels. This figure was used to compute the 1975 stock change (Table 7a).

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

TOTAL U.S. SUPPLY AND DEMAND FOR RESIDUAL FUEL OIL
(Daily Averages in Thousands of Barrels)

	SUPPLY						DEMAND			
	Production									
Year	Production	Transfers from Crude oil	Total	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1975	1,236	15	1,251	1,223	2,474	74,126	− 2	2,476	15	2,461
1976	1,376	17	1,393	1,413	2,806	72,344	− 5	2,811	12	2,799
1977	1,754	13	1,767	1,359	3,126	89,993	+49	3,077	6	3,071
1978	1,667	13	1,680	1,355	3,035	90,194	+ 1	3,036	13	3,023
1979(r)	1,687	12	1,699	1,151	2,850	95,598	+15	2,835	9	2,826
1980(p)	1,577	12	1,589	920	2,509	90,344	−14	2,523	33	2,490

(r) Revised
(p) Preliminary

Source: U.S. Energy Information Administration, Petroleum Statement, Annual and December issue. 1980 December issue.

Table 8

SALES OF DISTILLATE AND RESIDUAL FUEL OIL TO ELECTRIC UTILITIES
(Thousands of barrels per day)

Year	Distillate	% of Total Distillate Demand	Residual	% of Total Residual Demand	Total	Total Fuel Oil Demand, All Sectors	Electric Utility Demand as a % of Total Fuel Oil Demand
1947	39	4.8%	167	11.8%	206	2,238	9.2%
1948	41	4.4	155	11.3	196	2,298	8.5
1949	34	3.8	219	16.1	253	2,261	11.2
1950	36	3.3	255	16.8	291	2,599	11.2
1951	26	2.1	193	12.5	219	2,771	7.9
1952	23	1.8	192	12.7	215	2,819	7.6
1953	19	1.4	234	15.2	253	2,872	8.8
1954	17	1.2	194	13.6	211	2,873	7.3
1955	16	1.0	208	13.6	224	3,118	7.2
1956	15	0.9	202	13.1	217	3,220	6.7
1957	15	0.9	210	14.0	225	3,192	7.0
1958	15	0.8	211	14.5	226	3,245	7.0
1959[1]	14	0.8	225	14.6	239	3,352	7.1
1960[2]	13	0.7	233	15.2	246	3,400	7.2
1961	11	0.6	241	16.0	252	3,405	7.4
1962	11	0.5	242	16.2	253	3,502	7.2
1963	11	0.5	251	17.0	262	3,523	7.4
1964	10	0.5	267	17.6	277	3,565	7.8
1965	10	0.5	315	19.6	235	3,734	8.7
1966	10	0.5	378	22.0	388	3,901	9.9
1967	8	0.4	434	24.3	442[3]	4,027	11.0
1968	23[4]	1.0	505	27.7	528	3,215	16.4
1969	33	1.3	679	34.3	712	4,444	16.0
1970	68	2.7	856	38.8	924	4,744	19.5
1971	97	3.6	1,019	44.4	1,116	4,957	22.5
1972	187[5]	6.4	1,189	47.0	1,376	5,442	25.3
1973	214[5]	6.9	1,396	49.5	1,610	5,915	27.2
1974	232[5]	7.9	1,302	49.3	1,534	5,587	27.5
1975	174[5]	6.1	1,246	50.6	1,420	5,312	26.7
1976	165[5]	5.3	1,351	48.1	1,510	5,961	25.3
1977	210[5]	6.2	1,560	50.8	1,770	6,441	27.5
1978	211[5]	6.1	1,461	48.3	1,672	6,467	25.9

---

[1] These data include Alaska but not Hawaii.

[2] These data and those for subsequent years are on a 50-state basis.

[3] Electric public utility power plants only.

[4] These data and those for subsequent years include distillate sales for gas turbine plants.

[5] Includes kerosine jet fuel: 1972—24,000 bbls. per day; 1973—17,000 bbls. per day; 1974—14,000 bbls. per day; 1975—9,000 bbls. per day; 1976—11,600 bbls. per day; 1977—17,419 bbls. per day; 1978—12,342 bbls. per day.

Source: Energy Information Administration, Sales of Fuel Oil and Kerosine, Annuals

MOTOR GASOLINE CONSUMPTION IN THE UNITED STATES
(Thousand Gallons)

STATES	1962 1/	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Alabama	1,067,093	1,108,056	1,173,601	1,225,510	1,289,379	1,336,173	1,418,671	1,497,778	1,576,614	1,678,986	1,796,381	1,886,499	1,862,659
Alaska	49,644	51,577	56,075	63,788	64,478	68,157	77,905	86,603	90,489	92,064	111,594	123,995	163,070
Arizona	558,562	586,726	617,131	634,772	672,134	695,160	753,141	857,887	933,764	998,011	1,094,225	1,201,122	1,147,782
Arkansas	665,031	696,979	729,755	760,282	790,413	822,045	870,295	919,093	957,861	1,021,845	1,113,419	1,164,993	1,152,195
California	6,174,317	6,525,421	6,914,444	7,180,701	7,534,489	7,776,952	8,246,668	8,659,571	9,058,684	9,363,091	9,995,752	10,307,287	9,887,993
Colorado	734,160	757,265	788,491	816,177	849,421	884,608	957,039	1,020,640	1,109,271	1,187,015	1,295,516	1,356,428	1,301,967
Connecticut	842,550	879,170	922,774	962,330	1,005,351	1,038,161	1,103,268	1,155,227	1,213,358	1,261,342	1,309,281	1,324,085	1,327,308
Delaware	195,355	205,954	206,598	215,135	224,394	227,476	237,703	250,885	266,966	278,240	289,802	305,316	296,489
Dist of Col	210,702	201,356	212,799	220,886	224,211	221,691	225,427	229,067	229,850	232,950	232,422	248,626	240,457
Florida	1,915,904	2,006,222	2,126,210	2,243,581	2,385,233	2,515,867	2,748,550	2,994,281	3,232,450	3,490,217	3,899,403	4,316,798	4,205,193
Georgia	1,404,674	1,465,671	1,563,737	1,655,099	1,744,907	1,840,233	1,996,264	2,161,759	2,295,682	2,466,166	2,679,515	2,830,556	2,739,639
Hawaii	151,197	152,457	160,106	169,841	177,491	181,998	200,126	213,780	221,973	240,160	252,963	262,887	277,849
Idaho	294,826	297,597	308,333	321,015	329,895	343,979	353,990	379,479	400,735	421,403	451,315	468,321	457,785
Illinois	3,277,932	3,382,046	3,506,222	3,638,663	3,819,091	3,879,185	4,160,075	4,312,652	4,408,829	4,596,788	4,836,883	5,048,307	5,024,751
Indiana	1,840,861	1,890,093	1,956,911	2,037,715	2,125,426	2,169,585	2,311,357	2,410,523	2,508,880	2,590,540	2,740,984	2,846,485	2,739,043
Iowa	1,206,366	1,243,196	1,264,294	1,295,595	1,372,526	1,422,541	1,458,129	1,499,697	1,516,878	1,599,492	1,653,457	1,797,666	1,647,054
Kansas	1,023,636	1,039,657	1,052,216	1,075,559	1,098,771	1,128,343	1,261,616	1,340,894	1,345,014	1,339,516	1,428,354	1,377,262	1,329,122
Kentucky	957,804	996,318	1,041,346	1,092,893	1,145,238	1,216,404	1,288,696	1,362,736	1,438,058	1,533,258	1,625,619	1,696,508	1,676,588
Louisiana	977,677	1,012,696	1,083,154	1,154,384	1,226,382	1,279,173	1,360,715	1,420,327	1,482,761	1,538,410	1,685,138	1,744,770	1,756,343
Maine	346,745	354,350	368,636	382,716	394,953	405,061	426,000	442,582	465,138	489,231	517,865	533,231	520,051
Maryland	987,408	1,047,240	1,098,212	1,143,315	1,220,169	1,277,344	1,366,279	1,466,184	1,569,266	1,664,565	1,775,394	1,840,506	1,789,440
Massachusetts	1,490,870	1,533,611	1,592,022	1,651,647	1,712,057	1,766,218	1,873,028	1,954,415	2,078,906	2,144,361	2,276,322	2,347,441	2,296,921
Michigan	2,792,967	2,930,105	3,018,362	3,183,006	3,342,442	3,415,709	3,648,173	3,839,650	4,013,072	4,268,082	4,547,187	4,748,355	4,565,132
Minnesota	1,372,457	1,415,974	1,451,934	1,495,423	1,572,099	1,610,761	1,707,502	1,798,954	1,879,177	1,969,765	2,061,019	2,117,580	2,034,085
Mississippi	707,872	738,301	767,988	794,987	847,672	886,319	937,310	1,000,175	1,046,335	1,103,053	1,202,673	1,234,423	1,195,373
Missouri	1,722,913	1,773,359	1,838,699	1,893,743	1,983,408	2,036,025	2,147,273	2,270,371	2,373,032	2,520,133	2,645,694	2,715,190	2,628,598
Montana	309,869	309,609	313,450	327,979	334,344	342,289	361,060	371,950	395,762	425,158	427,048	440,456	448,019
Nebraska	633,965	655,102	676,866	690,018	718,456	733,607	762,982	799,783	814,936	852,453	883,983	902,846	868,296
Nevada	184,637	205,360	218,989	233,702	242,024	247,239	264,295	285,519	314,702	333,806	365,954	389,776	382,610
New Hampshire	212,076	221,306	233,389	244,485	262,392	275,998	300,730	322,299	346,298	368,844	390,596	401,937	390,559
New Jersey	2,045,680	2,148,500	2,222,915	2,322,560	2,391,674	2,447,834	2,594,999	2,676,054	2,802,641	2,914,276	3,170,170	3,245,118	3,174,698
New Mexico	407,899	426,085	441,606	453,980	467,035	474,859	497,657	531,471	556,157	603,704	646,830	686,811	683,532
New York	4,068,568	4,196,606	4,405,589	4,549,269	4,730,616	4,865,488	5,027,115	5,454,249	5,506,910	5,833,093	6,026,795	6,258,799	5,997,859
North Carolina	1,565,360	1,645,046	1,745,346	1,809,559	1,912,416	2,015,089	2,122,010	2,266,828	2,378,383	2,497,823	2,713,709	2,813,722	2,820,286
North Dakota	321,951	331,251	342,523	347,480	346,264	345,032	357,520	374,952	380,364	383,587	422,587	429,026	411,328
Ohio	3,305,508	3,359,222	3,523,939	3,657,408	3,830,041	3,934,925	4,168,373	4,383,205	4,574,876	4,695,627	4,960,046	5,194,284	5,006,097
Oklahoma	983,966	1,008,420	1,049,671	1,077,090	1,135,940	1,171,121	1,235,953	1,300,609	1,372,638	1,436,814	1,516,097	1,599,001	1,675,497
Oregon	721,548	748,510	793,407	835,390	872,869	900,083	943,803	995,103	1,056,737	1,116,118	1,191,714	1,239,689	1,187,671
Pennsylvania	3,300,176	3,369,210	3,492,876	3,599,184	3,695,541	3,849,853	4,030,622	4,170,261	4,347,667	4,458,007	4,768,816	4,836,463	4,813,878
Rhode Island	251,973	260,575	266,247	274,284	284,659	291,723	309,467	319,424	377,754	392,111	401,314	407,135	371,740
South Carolina	773,812	805,150	839,056	888,535	944,289	988,231	1,064,726	1,136,709	1,209,516	1,315,582	1,398,217	1,466,738	1,456,658
South Dakota	369,744	374,564	372,471	378,889	386,384	391,196	406,324	410,698	420,859	439,796	464,493	472,646	456,444
Tennessee	1,200,616	1,245,849	1,324,458	1,370,742	1,463,854	1,545,576	1,609,233	1,721,094	1,792,235	1,922,133	2,103,575	2,266,089	2,181,836
Texas	3,974,184	4,150,126	4,358,915	4,525,707	4,743,477	4,923,595	5,328,563	5,670,785	6,004,582	6,464,768	6,888,155	7,350,539	7,099,280
Utah	344,939	358,369	369,398	382,693	402,191	414,702	450,967	478,390	511,959	544,925	594,731	616,731	616,419
Vermont	139,741	144,851	149,730	158,593	168,816	180,781	190,219	199,412	213,786	226,536	242,597	245,662	235,325
Virginia	1,332,670	1,345,478	1,410,858	1,479,876	1,544,631	1,599,174	1,693,865	1,790,109	1,900,620	2,028,516	2,164,688	2,474,181	2,441,443
Washington	1,040,286	1,048,248	1,090,828	1,142,082	1,232,598	1,313,146	1,404,704	1,477,305	1,534,060	1,577,951	1,647,546	1,716,314	1,666,944
West Virginia	494,792	507,715	520,633	540,240	569,235	590,460	630,982	652,414	691,539	717,015	734,827	778,331	766,439
Wisconsin	1,391,608	1,430,350	1,486,187	1,541,094	1,605,982	1,646,387	1,754,061	1,848,476	1,940,575	2,013,424	2,146,830	2,208,977	2,145,544
Wyoming	186,282	190,205	194,451	197,524	201,114	205,770	221,582	230,411	246,667	256,601	279,080	293,571	294,460
U.S. Total	**62,531,373**	**64,779,104**	**67,663,848**	**70,337,126**	**73,638,872**	**76,139,326**	**80,867,012**	**85,415,920**	**89,405,266**	**93,907,352**	**100,068,575**	**104,579,479**	**101,855,749**

1/ Prior to 1962 data not available on a comparable basis

Source: 1962-1973 American Petroleum Institute
1974 Federal Highway Administration, Table MF33G.

Note: The gallonage shown above represents comsumption of motor gasoline, excluding sales to U.S. Government and sales of aviation gasoline.

April 1976

MOTOR GASOLINE SALES IN THE UNITED STATES
(Thousand Gallons)

STATES	1975	1976	1977	1978	1979	1980
Alabama	1,918,203	2,028,878	2,096,979	2,181,179	2,093,703	1,962,046
Alaska	193,725	214,140	204,006	209,118	219,472	201,373
Arizona	1,191,998	1,250,917	1,325,630	1,405,574	1,412,930	1,328,722
Arkansas	1,185,649	1,256,990	1,288,316	1,330,318	1,269,750	1,178,800
California	10,166,056	10,684,270	11,242,281	11,754,669	11,515,926	10,992,050
Colorado	1,319,754	1,442,502	1,503,396	1,594,712	1,554,521	1,503,288
Connecticut	1,351,553	1,393,196	1,417,026	1,432,855	1,372,667	1,327,582
Delaware	303,545	315,973	314,070	313,277	306,489	293,851
Dist. of Col.	243,215	229,031	225,434	221,831	214,782	171,451
Florida	4,345,632	4,507,541	4,666,677	4,929,713	4,905,642	4,810,520
Georgia	2,773,264	2,913,600	3,002,467	3,114,628	3,022,565	2,874,923
Hawaii	289,772	303,836	320,804	332,512	332,490	354,529
Idaho	482,462	520,640	530,225	563,706	538,740	488,333
Illinois	5,127,189	5,327,380	5,423,741	5,565,912	5,186,151	4,816,780
Indiana	2,762,822	2,801,466	2,911,250	3,017,500	2,897,500	2,686,146
Iowa	1,655,383	1,729,960	1,753,578	1,780,537	1,718,515	1,561,192
Kansas	1,378,773	1,462,585	1,433,106	1,504,662	1,406,812	1,310,568
Kentucky	1,743,523	1,840,476	1,889,170	1,941,387	1,868,006	1,755,397
Louisiana	1,830,011	1,986,865	2,076,160	2,157,919	2,158,327	2,081,328
Maine	536,015	567,427	575,775	586,048	541,664	517,014
Maryland	1,880,724	1,962,715	2,027,804	2,065,378	1,950,162	1,941,209
Massachusetts	2,313,488	2,398,788	2,430,633	2,465,719	2,411,996	2,301,675
Michigan	4,630,247	4,885,908	4,950,597	5,010,304	4,756,597	4,274,036
Minnesota	2,089,531	2,173,006	2,228,329	2,322,812	2,221,623	2,045,270
Mississippi	1,192,595	1,254,446	1,322,865	1,332,417	1,292,209	1,194,845
Missouri	2,668,731	2,802,102	2,870,104	2,946,521	2,786,256	2,602,627
Montana	461,411	493,245	511,714	531,445	499,397	459,950
Nebraska	880,948	939,870	939,626	958,879	907,383	816,426
Nevada	409,496	434,031	464,832	509,705	500,916	500,286
New Hampshire	401,243	426,860	444,560	456,391	433,556	411,214
New Jersey	3,282,821	3,402,353	3,448,987	3,524,059	3,367,400	3,260,992
New Mexico	708,455	760,885	779,366	821,722	793,452	746,655
New York	6,063,476	6,281,127	6,202,584	6,286,240	5,871,929	5,672,549
North Carolina	2,864,661	3,012,863	3,123,577	3,259,167	3,129,488	2,932,274
North Dakota	433,296	452,728	452,771	467,847	443,692	407,250
Ohio	5,095,243	5,273,960	5,445,906	5,510,753	5,356,650	4,982,574
Oklahoma	1,743,196	1,832,255	1,881,335	1,984,458	1,897,821	1,845,259
Oregon	1,224,276	1,310,983	1,369,886	1,441,886	1,385,047	1,330,612
Pennsylvania	4,598,530	5,006,020	5,119,281	5,219,001	5,041,809	4,700,328
Rhode Island	395,532	384,525	405,832	412,404	397,229	381,826
South Carolina	1,506,212	1,599,507	1,636,136	1,724,697	1,657,831	1,554,787
South Dakota	501,055	474,182	489,910	497,196	458,549	423,517
Tennessee	2,387,877	2,479,795	2,554,604	2,664,299	2,528,233	2,417,939
Texas	7,535,342	8,077,479	8,496,289	8,737,658	8,710,656	8,106,499
Utah	646,942	680,027	714,148	761,968	730,529	734,992
Vermont	240,270	255,094	260,155	269,204	252,404	233,842
Virginia	2,511,736	2,662,471	2,752,404	2,861,327	2,739,763	2,599,199
Washington	1,741,625	1,863,713	1,954,975	2,052,403	1,996,081	1,882,513
West Virginia	813,024	872,009	900,930	909,773	888,849	845,242
Wisconsin	2,197,391	2,299,086	2,356,462	2,448,434	2,352,463	2,177,363
Wyoming	319,042	343,229	361,399	388,681	381,674	373,723
TOTAL	**104,516,610**	**109,873,935**	**113,102,036**	**116,780,787**	**112,678,296**	**106,378,366**

Source: 1979 Federal Highway Administration. Table MF33G.

NOTE: The gallonage shown above represents consumption of motor gasoline and includes sales to U.S. Government and sales of aviation gasoline. Excludes exports and dealer transfers.

U.S. SALES OF DISTILLATE FUEL OILS, BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	1,937	2,493	2,340	2,692	2,846	3,073	3,186	3,508	3,914	4,277	4,326	4,346	4,891	5,370
Alaska	—	—	—	—	—	—	—	—	—	—	—	—	2,618	2,616
Arizona	1,173	1,342	1,021	1,020	1,233	1,341	1,329	1,279	1,073	1,716	1,742	2,018	2,100	2,774
Arkansas	1,733	1,838	2,162	2,414	2,244	2,325	2,222	2,136	2,357	2,558	2,575	2,433	2,175	2,052
California	20,481	22,573	21,232	19,212	22,031	23,875	24,063	23,812	23,873	24,643	24,613	24,884	26,357	26,697
Colorado	1,724	1,976	1,683	1,831	2,036	2,503	2,732	3,108	3,371	3,532	3,585	3,238	3,099	4,225
Connecticut	8,635	10,487	9,510	11,067	11,777	12,286	12,520	14,928	16,071	18,490	18,574	23,885	22,176	23,230
Delaware	783	866	1,013	1,285	1,556	1,702	1,861	2,365	2,677	3,235	3,245	2,413	2,487	2,723
Dist. of Col.	2,733	2,789	2,246	2,433	2,982	3,368	3,458	3,728	3,907	4,139	4,124	3,402	2,719	2,914
Florida	3,760	4,068	3,824	4,648	5,343	6,863	7,176	8,441	9,613	10,169	10,188	8,150	8,190	8,971
Georgia	1,956	2,593	2,604	3,202	3,962	4,262	4,119	4,225	4,560	4,914	4,877	4,887	4,731	5,117
Hawaii	—	—	—	—	—	—	—	—	—	—	—	—	—	876
Idaho	1,034	1,570	1,562	1,770	2,291	2,457	2,595	3,080	3,706	3,837	3,834	3,938	3,734	4,055
Illinois	20,906	21,622	19,582	26,320	28,517	29,061	29,021	30,388	33,371	35,290	35,350	42,869	43,006	42,490
Indiana	6,153	8,429	8,080	10,776	13,205	13,968	15,166	16,294	18,962	20,441	20,482	24,099	24,500	25,596
Iowa	6,099	7,435	7,610	8,925	9,791	10,204	10,488	10,399	11,417	12,543	12,548	9,883	11,360	11,141
Kansas	2,881	4,094	3,185	4,527	5,552	5,695	5,938	5,897	6,493	6,388	6,361	4,477	5,060	4,751
Kentucky	1,586	1,980	1,956	2,274	2,753	3,250	3,359	3,291	4,126	4,476	4,548	4,978	5,800	4,833
Louisiana	3,274	4,268	4,021	4,619	5,224	5,840	6,212	6,242	7,385	7,653	7,877	10,756	11,249	10,694
Maine	2,266	2,638	2,576	3,496	3,935	4,276	4,514	5,309	5,703	6,425	6,426	6,434	7,108	7,456
Maryland	7,551	8,442	7,691	8,981	10,898	11,189	11,731	14,468	16,009	17,916	18,091	16,086	12,495	13,101
Massachusetts	19,290	20,919	19,741	22,769	27,261	28,064	27,925	31,306	34,036	35,859	35,981	47,452	47,781	51,022
Michigan	12,277	13,713	14,562	18,493	20,334	22,268	22,351	24,625	27,402	29,071	28,995	29,385	28,387	30,464
Minnesota	9,327	10,229	10,094	12,448	14,560	15,478	15,784	16,218	17,409	18,765	18,726	16,468	15,079	16,241
Mississippi	912	1,002	1,010	1,271	1,507	1,502	1,774	1,619	1,808	1,840	1,856	1,744	2,318	2,364
Missouri	7,072	8,110	6,822	7,815	8,684	10,224	10,854	11,283	12,137	12,306	12,418	14,274	12,700	12,830
Montana	1,660	1,810	1,965	2,478	2,851	3,063	3,553	3,755	3,980	4,219	4,209	3,642	4,474	4,877
Nebraska	3,340	3,744	3,386	3,707	3,829	4,071	4,378	4,723	5,229	5,561	5,549	3,527	3,929	4,183
Nevada	951	1,363	1,772	1,843	2,102	2,158	2,281	2,375	1,686	1,748	1,679	1,656	2,051	2,428
New Hampshire	1,387	1,455	1,945	2,765	3,102	3,442	3,370	4,220	4,498	5,123	5,089	3,951	4,049	4,484
New Jersey	26,011	28,755	26,993	30,521	32,298	33,028	33,124	35,733	38,971	41,335	41,370	42,923	45,634	45,542
New Mexico	708	653	715	950	972	1,224	1,309	1,457	1,991	2,167	2,205	2,492	2,302	3,065
New York	38,888	45,902	45,252	52,173	56,334	59,373	59,604	64,262	70,276	72,606	72,755	85,779	79,499	81,677
North Carolina	2,552	3,220	3,491	4,354	5,490	6,360	7,381	7,860	8,982	9,279	9,312	10,406	11,544	13,353
North Dakota	1,067	1,312	1,616	1,939	2,026	2,456	2,425	2,600	3,151	3,740	3,726	2,976	3,632	3,775
Ohio	7,479	10,120	9,442	12,059	14,474	15,953	16,542	18,150	20,184	21,937	22,045	24,221	24,850	23,836
Oklahoma	1,084	1,571	1,929	1,928	2,223	2,192	2,436	2,368	2,493	2,454	2,470	1,754	2,603	2,631
Oregon	5,720	6,181	6,343	7,725	8,534	8,974	8,680	8,939	10,981	10,862	10,132	9,380	10,456	10,920
Pennsylvania	19,916	22,196	20,849	28,266	34,585	35,827	36,513	40,288	44,286	45,734	45,698	45,322	44,029	45,668
Rhode Island	3,389	3,413	3,408	4,116	4,260	4,343	4,482	4,484	4,762	5,513	5,530	7,250	7,167	8,093
South Carolina	1,427	1,662	1,630	1,854	2,202	2,491	3,004	2,990	3,259	3,445	3,588	4,266	4,454	5,203
South Dakota	1,338	1,434	1,510	1,893	2,133	2,399	2,626	2,756	3,298	3,556	3,508	2,800	2,882	2,964
Tennessee	2,018	2,143	2,125	3,062	3,428	3,487	3,628	3,529	3,845	3,767	3,652	3,226	5,037	5,268
Texas	8,035	10,120	9,238	12,790	16,183	19,022	19,046	18,913	20,728	22,258	22,812	24,077	26,541	24,315
Utah	1,223	1,448	1,474	2,001	2,334	3,263	3,542	3,574	3,994	4,235	4,255	4,655	3,478	3,841
Vermont	816	875	1,054	1,117	1,166	1,212	1,321	1,415	1,726	1,937	1,883	2,796	2,399	2,930
Virginia	4,539	5,319	5,380	7,855	9,156	9,800	9,442	10,888	13,242	14,293	14,782	13,300	12,984	14,164
Washington	9,602	11,005	11,215	12,954	14,145	14,904	14,277	15,438	17,767	17,237	17,518	14,915	16,867	18,045
West Virginia	475	585	554	651	1,229	1,188	1,331	1,307	1,500	2,095	2,039	1,913	2,154	2,462
Wisconsin	8,203	8,609	8,279	10,285	11,437	11,803	11,877	13,648	16,089	17,090	17,149	20,136	20,316	21,711
Wyoming	643	1,600	1,504	1,732	1,893	2,103	2,294	2,624	2,829	3,092	2,977	3,697	3,539	3,258
U.S. Total	**298,014**	**341,973**	**329,196**	**395,306**	**448,908**	**479,210**	**488,844**	**526,245**	**581,127**	**615,775**	**617,275**	**653,559**	**658,992**	**683,325**

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

April 1976

U.S. SALES OF DISTILLATE FUEL OILS BY STATE
(Thousand Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	4,310	4,938	5,148	5,887	5,335	5,239	4,148	6,556	7,378	8,510	8,849	12,093
Alaska	2,849	2,897	3,076	3,482	3,733	4,049	4,353	4,757	4,869	5,082	6,352	6,207
Arizona	3,107	3,001	3,520	3,528	3,584	4,030	3,761	4,599	4,722	4,898	5,242	8,786
Arkansas	3,078	2,451	2,579	3,358	2,899	3,259	3,282	4,079	4,647	5,474	5,489	9,412
California	27,410	29,685	32,256	34,991	35,672	38,335	38,767	38,519	39,112	39,188	47,357	45,797
Colorado	4,441	4,148	4,580	4,074	4,002	4,670	4,811	5,574	5,490	5,211	6,242	6,784
Connecticut	23,196	23,099	22,906	20,378	21,415	20,408	20,785	21,748	22,673	24,147	24,100	24,735
Delaware	2,537	3,097	3,474	3,257	3,361	3,381	3,417	3,918	4,097	4,309	4,345	4,298
Dist. of Col.	2,726	2,878	2,872	2,957	3,566	3,489	3,424	3,525	4,377	4,934	3,834	3,314
Florida	9,369	10,611	10,902	11,076	12,456	14,179	13,733	14,794	14,913	15,698	16,525	19,488
Georgia	5,269	6,218	6,969	6,977	8,666	10,059	11,558	12,013	12,540	12,784	14,638	16,491
Hawaii	1,666	1,641	1,375	1,769	1,613	1,369	1,190	1,381	1,573	1,695	1,706	1,622
Idaho	4,037	4,204	4,108	4,501	4,880	4,916	7,433	7,748	5,844	5,597	5,702	5,866
Illinois	42,255	41,361	41,421	41,580	41,702	39,831	39,846	42,795	44,498	44,517	49,467	55,276
Indiana	25,452	25,743	25,934	25,813	26,340	26,338	26,538	27,355	29,493	29,363	30,670	34,233
Iowa	10,043	11,022	11,106	10,968	11,256	12,579	12,823	14,172	13,828	13,681	14,242	14,975
Kansas	5,187	5,242	5,612	5,487	5,405	6,310	6,009	6,660	6,488	7,559	8,401	9,166
Kentucky	4,426	5,822	5,532	5,697	5,659	7,068	6,901	7,304	7,865	8,209	7,776	9,470
Louisiana	9,038	9,622	9,762	9,688	8,517	9,284	7,847	9,858	10,737	11,796	13,384	17,644
Maine	8,307	8,645	9,487	8,792	9,424	9,038	10,110	10,647	11,417	11,837	12,120	12,744
Maryland	14,257	15,146	16,014	16,863	17,361	18,016	17,851	18,759	18,618	19,860	20,000	21,435
Massachusetts	52,266	53,448	51,664	49,966	56,694	51,262	54,943	56,315	58,399	59,211	61,609	63,616
Michigan	30,547	31,131	30,471	29,576	31,079	32,127	37,376	36,601	37,473	38,108	41,684	48,660
Minnesota	15,967	16,776	16,629	16,739	19,227	21,195	20,083	22,233	22,121	22,390	23,777	25,979
Mississippi	1,954	2,715	2,885	3,322	2,841	3,169	3,459	5,097	5,775	5,987	7,215	9,413
Missouri	12,858	13,412	13,939	13,884	14,077	13,908	13,924	17,067	16,473	16,218	16,350	18,101
Mo[illegible]	5,248	5,522	5,400	5,684	5,041	5,802	3,459	4,119	4,669	4,823	5,709	6,121
Neb[illegible]	4,481	4,099	4,387	4,689	3,789	4,590	5,311	6,487	6,492	7,459	7,604	9,002
Nevada	2,985	3,017	2,844	3,523	2,821	2,495	2,350	2,693	2,767	2,832	3,151	2,924
New Hampshire	5,486	5,834	6,327	5,742	5,907	6,073	6,823	7,106	7,490	7,676	8,085	8,303
New Jersey	46,992	48,622	51,466	51,655	54,123	57,123	58,871	60,056	62,077	63,447	64,769	72,659
New Mexico	2,841	3,512	3,642	3,946	3,971	3,647	3,064	4,183	4,547	5,405	5,395	6,569
New York	86,029	94,501	95,856	94,610	104,690	102,827	107,192	106,843	108,646	111,122	113,833	122,075
North Carolina	13,366	15,617	16,000	16,249	17,428	20,869	20,577	19,944	20,407	22,553	21,609	23,030
North Dakota	3,693	4,472	4,584	4,529	5,252	6,008	6,036	6,156	5,959	4,973	4,915	5,135
Ohio	23,433	24,250	26,348	27,121	28,132	31,216	31,161	34,025	34,386	34,435	35,090	41,414
Oklahoma	3,152	3,243	3,729	3,325	2,950	3,618	3,980	5,173	4,961	5,573	5,473	7,828
Oregon	11,061	11,777	12,828	13,855	13,295	13,837	13,083	13,298	13,646	12,895	14,162	15,467
Pennsylvania	45,982	49,315	51,702	50,699	54,818	54,501	57,146	59,721	60,668	63,544	63,221	70,757
Rhode Island	7,547	7,411	7,391	6,272	7,017	6,627	7,287	7,746	8,517	8,623	9,070	9,176
South Carolina	5,116	5,776	6,169	5,228	4,910	6,541	6,542	7,788	8,543	9,469	9,114	9,722
South Dakota	3,085	3,212	3,370	3,823	3,838	4,130	3,875	3,830	3,802	4,372	4,600	4,469
Tennessee	5,552	6,167	6,706	6,784	7,414	9,404	8,902	10,278	10,432	10,945	11,609	14,218
Texas	21,795	23,959	24,092	23,998	25,280	23,311	23,022	24,457	29,791	32,398	34,884	46,515
Utah	3,085	3,607	3,640	3,766	4,275	4,886	4,702	4,750	5,028	5,104	6,515	6,310
Vermont	3,299	3,602	3,787	3,603	4,318	4,825	4,946	5,058	5,514	5,732	5,472	5,729
Virginia	14,631	15,843	16,945	16,542	18,941	21,304	21,796	22,286	23,218	24,624	24,441	25,020
Washington	17,532	17,057	16,791	17,997	17,390	17,910	16,459	17,792	18,201	18,188	18,621	19,090
West Virginia	2,525	2,490	2,622	2,320	2,882	3,177	3,303	3,743	3,786	3,913	4,658	5,532
Wisconsin	22,153	23,329	23,461	23,328	23,902	24,446	26,918	26,341	26,084	25,827	26,520	26,781
Wyoming	3,250	3,838	3,816	3,653	3,743	3,038	4,023	5,153	5,249	5,055	5,724	5,419
U.S. Total	**690,874**	**729,095**	**748,124**	**747,551**	**786,891**	**809,713**	**829,200**	**873,100**	**900,300**	**927,250**	**971,320**	**1,074,870**

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

U.S. SALES OF DISTILLATE FUEL OILS BY STATE
(Thousand Barrels)

STATE	1973	1974	1975	1976(1)	1977(1)	1978(1)
Alabama	13,988	14,761	14,468	18,032	19,624	20,194
Alaska	6,384	6,591	6,946	9,517	10,187	10,571
Arizona	15,118	11,197	11,461	10,181	13,727	13,829
Arkansas	9,949	10,316	9,392	10,228	12,451	13,014
California	51,165	42,991	43,129	45,545	54,009	60,126
Colorado	7,737	8,712	8,590	9,408	9,668	10,023
Connecticut	25,181	22,677	21,844	23,706	23,249	23,011
Delaware	4,382	4,310	4,487	4,615	5,096	4,840
Dist. of Col.	3,462	3,497	3,112	3,781	4,005	6,204
Florida	22,662	22,599	23.083	24,268	28,236	28,920
Georgia	20,478	20,835	16,922	22,480	22,559	19,641
Hawaii	1,839	1,897	2,512	2,370	3,502	3,246
Idaho	6,297	6,876	7,378	7,346	7,983	8,362
Illinois	54,288	53,950	52,103	58,877	58,459	61,760
Indiana	34,353	34,516	33,314	36,193	38,044	39,278
Iowa	15,467	14,751	14,249	15,257	16,012	16,687
Kansas	10,330	11,080	11,328	11,986	12,484	14,317
Kentucky	10,457	10,176	10,760	13,566	16,845	18,809
Louisiana	24,677	24,766	22,139	23,324	32,251	33,185
Maine	12,147	11,659	11,331	13,407	14,476	13,373
Maryland	22,591	22,094	21,712	20,571	21,748	21,341
Massachusetts	62,970	58,934	57,195	61,666	59,564	57,446
Michigan	47,146	44,204	41,747	43,826	44,835	45,461
Minnesota	26,768	24,185	23,974	27,513	26,645	27,807
Mississippi	13,045	14,372	12,188	13,713	14,584	16,306
Missouri	18,781	17,424	17,106	19,555	20,588	23,027
Montana	6,924	7,646	7,459	8,383	8,141	8,114
Nebraska	9,262	8,684	8,363	10,178	10,643	12,127
Nevada	3,304	2,561	2,535	2,715	3,055	3,822
New Hampshire	8,208	7,551	7,047	8,758	8,231	8,292
New Jersey	74,564	67,426	58,937	61,787	60,052	56,592
New Mexico	7,948	7,635	8,060	8,022	9,337	9,633
New York	120,200	108,677	104,646	115,237	114,446	114,344
North Carolina	24,898	22,246	20,965	23,881	27,107	24,749
North Dakota	4,626	4,303	4,362	4,061	4,069	4,194
Ohio	41,415	40,831	42,160	51,519	52,501	55,346
Oklahoma	8,814	8,744	9,696	11,775	12,775	14,477
Oregon	16,070	14,324	13,240	14,062	16,794	16,671
Pennsylvania	70,793	71,508	66,341	74,691	77,861	73,311
Rhode Island	8,633	8,038	7,787	8,478	8,199	7,679
South Carolina	10,956	9,638	8,132	10,218	12,972	11,023
South Dakota	4,140	3,586	3,821	3,311	3,042	3,670
Tennessee	15,310	15,815	17,657	21,469	24,071	26,825
Texas	57,567	58,766	55,262	58,655	74,678	81,171
Utah	7,792	8,624	8,962	8,367	8,631	9,023
Vermont	6,001	4,981	4,566	5,394	5,274	5,135
Virginia	26,561	24,938	24,534	25,339	28,332	27,161
Washington	20,091	16,345	16,606	18,405	19,800	20,765
West Virginia	5,922	5,622	6,478	6,807	9,019	8,796
Wisconsin	27,264	26,330	26,035	30,366	31,107	32,940
Wyoming	6,138	6,897	7,565	8,120	9,211	10,423
U.S. Total	**1,135,063**	**1,081,086**	**1,043,746**	**1,150,929**	**1,230,179**	**1,257,061**

---

(1) Includes 4,505,000 barrels of kerosine-type jet fuel used by electric utilities in 1978, 6,358,000 barrels in 1977, 4,234,000 barrels in 1976.

Source: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports

U.S. SALES OF DISTILLATE FUEL OIL BY USES
(Thousand Barrels)

Year	Heating Oils	Industrial Use	Oil Company Fuel	Electric Utility Company	Railroads	Vessel Bunkering	Military Use	Diesel Type On Highway	Diesel Type Off Highway	Diesel Type Total	All Other	Total
1947	189,991	24,489	2,191	14,216	23,619	14,475	5,176	1/	1/	14,579	9,278	298,014
1948	213,558	29,932	3,625	14,856	31,006	14,511	9,071	1/	1/	15,971	9,443	341,973
1949	202,666	26,424	4,151	12,550	38,604	13,121	6,109	1/	1/	16,734	8,837	329,196
1950	235,740	37,121	5,692	13,207	48,703	12,872	6,553	1/	1/	21,333	14,085	395,306
1951	265,982	42,567	7,811	9,612	59,962	14,393	8,430	1/	1/	25,485	14,666	448,908
1952	279,326	42,760	7,976	8,350	68,002	17,213	9,644	1/	1/	30,551	15,388	479,210
1953	283,100	42,384	7,755	6,825	75,246	16,898	9,569	20,908	14,072	34,980	12,087	488,844
1954	320,117	41,589	7,099	6,070	77,389	15,563	8,752	22,728	16,081	38,809	10,257	526,245
1955	356,589	43,606	8,597	5,884	84,668	16,675	10,945	23,446	20,769	44,215	9,948	581,127
1956	377,262	44,949	10,131	5,403	89,439	18,487	11,326	26,501	22,369	48,870	9,908	615,775
1957	377,044	43,532	10,419	5,296	88,315	20,420	12,737	26,817	22,867	49,684	9,828	617,275
1958	412,670	37,553	7,815	5,382	83,719	18,768	13,412	27,819	37,367	65,186	9,054	653,559
1959 2/	415,521	33,380	8,642	5,005	87,802	19,250	11,394	31,651	38,876	70,527	7,471	658,992
1960 3/	438,010	34,271	8,347	4,742	86,490	18,730	10,793	36,467	38,095	74,562	7,380	683,325
1961	450,292	31,226	8,743	4,151	85,180	14,566	11,484	40,972	36,853	77,825	7,407	690,874
1962	466,830	34,951	9,055	4,100	86,803	15,836	13,041	49,236	40,493	89,729	8,750	729,095
1963	465,315	36,647	10,253	4,149	88,117	15,148	13,436	66,773	39,568	106,341	8,718	748,124
1964	451,860	36,007	10,576	3,849	88,198	16,001	13,609	76,131	41,403	117,534	9,917	747,551
1965	475,992	42,484	10,430	3,661	86,436	15,532	14,953	73,776	50,346	124,122	13,281	786,891
1966	472,778	47,108	10,485	3,512	89,104	16,642	16,303	81,516	54,260	135,776	17,905	809,713
1967	501,026	44,997	8,997	2,858	88,688	17,478	17,325	1/	1/	1/	147,831	829,200
1968	510,682	45,795	9,975	8,509 4/	84,030	18,235	12,593	124,082	47,691	171,773	11,508	873,100
1969	511,768	42,456	13,867	12,158	86,429	18,877	13,958	138,814	49,439	188,253	12,534	900,300
1970	521,135	43,668	11,518	24,770	88,416	19,503	12,447	148,796	46,123	194,919	10,874	927,250
1971	522,475	50,731	14,088	35,329	86,251	20,959	17,427	166,981	46,925	213,906	10,154	971,320
1972	543,337	60,388	13,405	68,334	97,001	22,125	20,187	189,055	50,186	239,241	10,852	1,074,870
1973	536,856	67,306	14,902	77,950	102,828	26,786	19,598	221,420	55,541	276,961	11,876	1,135,063
1974 r/	493,223	64,036	13,805	84,661	102,949	24,757	17,748	221,033	48,743	269,776	10,131	1,081,086

r/ Revised
1/ Data not available
2/ Includes Alaska
3/ Includes Alaska and Hawaii
4/ Includes gas turbine plants in 1968 and subsequent years

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosene, Annual

U.S. SALES OF DISTILLATE FUEL OIL BY USES
(Thousand Barrels)

Year	Heating Oils(5)	Industrial Use(6)	Oil Company Fuel	Electric Utility Company(7)	Railroads	Vessels Bunkering	Military Use(8)	Diesel Type On Highway	Diesel Type Off Highway	Diesel Type Total	All Other	Total
1975	488,388	63,993	13,633	63,420	93,191	26,138	18,004	217,906	48,977	266,883	10,096	1,043,746
1976	543,895	79,956	14,523	60,570	97,467	28,330	17,574	242,820	54,429	297,249	11,365	1,150,929
1977	538,845	96,502	19,954	76,681	99,306	33,512	20,121	264,412	66,452	330,864	14,394	1,230,179
1978	533,069	94,797	19,410	77,175	99,841	37,591	20,320	290,943	69,856	360,799	14,059	1,257,061

---

(5) Includes range oil

(6) Excludes oil company use

(7) Includes kerosine-type jet fuel: 1976—11,600 bbls. per day; 1977—18,770 bbls. per day; 1978—12,342 bbls. per day.

(8) Includes imports by military

Source: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports

U.S. SALES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	3,294	2,296	1,891	2,271	2,417	2,677	3,873	3,123	3,907	4,162	4,203	4,240	4,178	4,202
Alaska	—	—	—	—	—	—	—	—	—	—	—	—	574	695
Arizona	3,491	1,841	1,087	1,448	1,157	542	206	45	61	35	21	37	34	95
Arkansas	2,253	2,080	1,833	2,273	2,051	1,497	1,006	415	419	545	549	455	346	474
California	90,916	79,081	77,171	78,397	85,884	79,127	85,870	79,973	83,959	84,421	79,245	72,232	72,287	78,774
Colorado	1,218	886	783	1,050	1,068	1,203	1,124	1,326	1,363	1,434	1,369	1,330	1,603	1,790
Connecticut	8,838	10,066	14,515	16,845	14,888	13,475	14,377	12,897	13,108	13,219	12,712	17,041	15,814	14,450
Delaware	1,139	1,043	1,921	2,373	1,888	2,501	2,558	2,228	2,907	2,956	2,973	5,992	7,063	6,081
Dist. of Col.	935	855	1,427	1,188	1,688	1,915	2,035	1,963	2,152	2,106	2,501	2,243	2,450	2,387
Florida	15,519	16,132	15,671	17,009	20,322	24,789	27,343	28,909	32,236	34,910	36,228	37,470	33,310	28,978
Georgia	2,933	3,375	4,227	4,733	5,619	5,816	6,573	5,590	6,118	5,955	6,128	7,145	6,824	6,413
Hawaii	—	—	—	—	—	—	—	—	—	—	—	—	—	5,613
Idaho	460	456	480	629	945	1,029	1,067	1,115	1,421	1,256	1,185	210	185	201
Illinois	17,047	15,276	15,570	19,517	20,257	20,455	20,823	20,499	22,227	22,571	21,375	26,926	23,689	25,893
Indiana	12,386	13,497	13,343	15,841	16,850	17,230	17,679	14,234	14,588	15,206	14,753	11,955	13,035	12,885
Iowa	777	742	1,176	1,321	1,365	1,217	1,051	884	994	1,165	1,125	869	1,088	1,021
Kansas	11,224	10,166	8,226	5,893	7,110	6,071	5,247	4,020	4,179	3,827	3,586	1,420	1,943	2,249
Kentucky	824	1,303	1,679	1,260	1,007	738	913	949	1,013	1,062	1,051	503	570	321
Louisiana	14,835	19,434	15,220	11,221	10,953	10,422	9,929	9,710	10,601	10,804	11,359	13,411	10,764	8,599
Maine	2,809	2,342	2,704	3,550	3,178	4,032	4,228	3,481	4,443	4,872	5,063	5,290	6,433	5,742
Maryland	17,119	13,276	13,521	14,168	15,814	14,852	15,323	14,031	15,466	15,770	15,364	14,974	17,385	16,490
Massachusetts	16,976	18,082	23,476	30,715	29,883	30,003	32,763	30,500	30,496	29,574	28,744	29,308	35,532	38,942
Michigan	7,046	11,051	11,403	12,708	13,743	14,153	14,809	14,675	15,387	16,008	15,330	9,340	13,498	11,242
Minnesota	1,022	1,315	1,467	2,432	2,431	2,430	2,370	2,352	2,700	2,987	2,955	4,963	6,399	6,363
Mississippi	343	411	314	348	257	173	163	160	179	219	232	268	435	339
Missouri	6,920	6,609	5,260	5,389	5,379	5,146	5,140	4,837	5,863	6,126	5,758	3,774	3,129	3,026
Montana	5,444	4,935	3,702	4,222	4,958	4,220	3,276	1,751	1,692	1,646	1,554	1,643	2,006	2,022
Nebraska	378	329	422	550	467	334	351	313	363	377	375	151	218	378
Nevada	5,957	4,372	1,514	2,889	2,685	2,266	2,048	1,353	1,359	383	269	195	146	202
New Hampshire	959	909	1,175	1,873	2,326	2,295	2,467	2,129	2,377	2,107	2,096	2,022	2,984	2,324
New Jersey	46,167	33,680	37,973	49,092	44,775	44,153	47,667	43,339	46,154	44,587	45,136	36,841	41,422	42,791
New Mexico	840	685	460	696	532	831	696	262	283	505	438	359	107	173
New York	32,907	45,871	49,168	61,829	52,684	50,966	53,437	50,809	51,912	51,737	51,168	71,533	79,784	76,586
North Carolina	433	461	560	990	1,109	1,257	1,439	1,809	2,377	2,558	2,467	3,034	3,908	4,537
North Dakota	414	447	358	297	224	120	124	179	515	870	783	625	597	663
Ohio	16,534	16,089	16,779	18,004	18,017	17,670	18,698	18,118	18,915	19,260	18,530	9,721	11,028	11,382
Oklahoma	8,276	7,723	5,438	4,783	3,890	3,011	2,351	1,479	1,783	1,857	1,740	1,001	1,319	1,396
Oregon	15,482	14,892	12,845	12,429	12,215	13,168	11,186	9,776	10,152	9,401	7,181	5,253	5,121	5,453
Pennsylvania	35,794	37,240	35,391	41,110	42,614	42,491	42,951	42,734	45,176	45,325	44,482	39,873	45,660	42,731
Rhode Island	7,088	7,917	8,508	10,891	10,030	9,756	10,993	9,473	11,215	11,303	11,114	11,127	10,350	9,502
South Carolina	2,349	2,496	2,610	3,652	4,145	5,230	5,332	3,985	4,291	4,389	4,383	4,660	4,886	4,634
South Dakota	257	288	262	294	231	239	232	165	176	211	217	100	48	60
Tennessee	1,015	890	919	1,398	1,331	1,097	1,257	652	930	879	865	384	284	184
Texas	66,789	63,376	48,481	48,560	50,464	46,508	41,978	36,312	38,108	37,883	37,859	29,082	25,275	22,102
Utah	1,486	1,585	3,639	4,767	4,979	5,351	5,044	4,321	4,392	4,478	4,201	5,077	5,872	5,562
Vermont	262	258	281	382	300	300	475	409	424	402	380	455	275	498
Virginia	11,298	10,590	12,200	12,883	18,037	20,294	15,523	12,998	16,556	17,452	17,739	21,411	17,703	17,448
Washington	14,149	13,304	12,043	13,715	14,644	17,025	14,328	14,978	16,405	16,975	11,795	8,747	9,162	9,179
West Virginia	828	1,171	1,360	1,587	1,464	1,337	1,526	1,269	1,355	1,317	1,321	894	1,620	1,451
Wisconsin	1,358	1,497	1,515	1,712	1,861	2,042	2,118	2,109	2,168	2,290	2,201	3,458	4,167	4,275
Wyoming	3,741	3,877	2,959	3,024	3,252	2,819	2,762	2,076	2,118	2,156	1,847	2,325	1,842	1,738
U.S.Total	**520,529**	**506,497**	**494,933**	**554,208**	**563,388**	**558,273**	**564,729**	**520,714**	**556,983**	**561,538**	**543,950**	**531,367**	**554,352**	**550,536**

Source: Bureau of Mines, Mineral Industry Surveys, "Sales of Fuel Oil and Kerosine," Annual

---

U.S. SALES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	3,555	2,749	3,184	2,274	2,459	1,652	2,835	2,773	3,392	3,283	2,601	3,170
Alaska	641	715	742	800	863	939	840	913	1,056	1,034	1,043	1,166
Arizona	94	117	60	113	40	87	82	113	156	94	723	1,139
Arkansas	379	566	864	750	406	359	495	654	501	1,584	2,887	3,183
California	81,587	68,949	62,842	66,927	67,614	75,104	70,407	73,420	73,638	65,503	80,467	83,978
Colorado	2,465	2,497	2,572	2,617	1,961	1,700	1,327	1,529	2,103	1,531	1,572	1,984
Connecticut	14,5[illegible]	16,019	16,260	19,848	16,776	20,283	25,195	28,433	32,924	36,057	34,564	40,706
Delaware	4,986	4,775	4,707	4,473	5,317	5,293	3,844	4,357	5,893	6,581	6,194	9,640
Dist. of Col.	1,955	2,243	2,533	3,914	6,504	6,783	8,126	9,138	10,042	11,148	10,748	10,656
Florida	32,600	37,044	35,668	39,425	43,093	41,884	38,605	40,543	44,523	55,169	62,414	76,325
Georgia	5,048	5,285	5,663	7,049	8,106	7,295	8,099	8,725	9,020	10,255	10,488	12,960
Hawaii	6,646	6,716	6,940	7,539	7,673	8,266	8,724	9,730	9,997	10,162	10,631	11,316
Idaho	422	223	260	433	344	208	137	206	402	276	276	246
Illinois	25,750	24,756	25,582	21,411	22,220	21,151	23,410	24,136	25,456	28,618	23,708	29,581
Indiana	11,988	10,736	10,756	11,464	12,601	11,729	11,142	11,550	9,519	9,757	12,194	14,326
Iowa	1,032	873	931	1,034	513	866	490	441	393	408	411	325
Kansas	1,433	1,533	1,565	1,127	1,052	1,021	1,252	1,625	1,438	1,247	827	1,974
Kentucky	278	389	460	559	576	696	891	850	1,043	1,061	674	1,159
Louisiana	8,537	6,563	6,653	7,293	7,589	6,716	10,240	10,094	11,509	11,270	8,384	8,667
Maine	6,366	5,985	5,332	7,546	6,442	8,077	8,121	8,590	9,467	11,693	18,331	21,365
Maryland	12,955	13,751	13,270	14,444	15,140	16,178	11,893	12,642	15,321	22,446	30,059	38,273
Massachusetts	40,242	41,852	37,693	43,320	53,294	60,234	66,460	68,586	73,572	86,063	82,917	87,930
Michigan	9,896	9,275	9,746	8,905	8,011	7,634	5,415	5,667	6,704	10,059	11,605	11,388
Minnesota	5,524	6,307	6,102	5,671	4,827	4,740	3,647	3,952	5,165	5,150	4,075	6,943
Mississippi	338	474	878	826	482	334	248	591	688	896	1,074	2,365
Missouri	2,638	2,131	2,335	2,400	3,252	2,623	3,371	3,379	3,640	3,615	2,904	[illegible]
Montana	2,533	3,049	2,836	2,356	1,195	1,371	1,169	1,495	1,524	1,249	1,236	1,485
Nebraska	419	626	1,133	958	310	382	527	605	731	798	597	706
Nevada	258	165	180	133	83	61	90	122	105	144	272	242
New Hampshire	2,067	2,545	2,524	2,588	2,408	3,911	3,612	2,993	4,434	5,514	6,016	5,961
New Jersey	42,990	50,422	50,539	50,135	42,445	50,461	63,810	67,583	73,697	80,840	75,213	80,761
New Mexico	311	323	209	146	655	363	111	90	95	215	466	621
New York	83,518	89,667	88,606	84,596	102,974	115,903	128,294	132,907	136,327	152,487	159,609	164,123
North Carolina	4,738	3,725	3,318	3,781	4,583	5,106	5,209	4,759	6,112	6,922	10,433	15,926
North Dakota	552	524	553	678	834	685	536	607	548	726	645	781
Ohio	9,023	8,227	7,790	9,233	10,558	7,984	6,722	6,045	6,183	6,532	5,259	5,840
Oklahoma	873	967	797	825	795	637	776	866	683	744	837	1,355
Oregon	4,879	4,989	4,930	5,314	4,931	5,617	5,517	6,735	6,796	6,679	6,538	7,977
Pennsylvania	38,970	41,422	42,245	43,636	42,430	47,160	44,348	47,013	52,489	60,389	59,973	58,490
Rhode Island	7,543	8,274	8,177	8,218	6,186	6,204	8,971	8,165	9,147	9,739	10,036	9,811
South Carolina	5,031	5,908	5,833	5,050	3,762	3,971	3,225	3,812	4,138	5,328	5,493	6,395
South Dakota	36	152	245	106	48	67	58	110	181	348	227	335
Tennessee	171	105	275	287	276	331	465	334	786	596	365	523
Texas	21,437	18,711	17,485	17,509	13,772	13,360	13,598	13,782	14,110	14,440	12,205	13,751
Utah	5,654	6,048	5,790	5,502	5,500	5,738	5,348	5,617	6,030	4,657	5,030	4,538
Vermont	540	629	607	413	937	1,048	504	547	677	903	896	954
Virginia	14,195	13,225	14,055	15,516	16,179	14,797	14,925	14,701	22,701	33,236	40,565	44,530
Washington	7,545	7,626	7,625	8,807	8,824	9,555	9,370	11,832	11,011	10,368	9,288	11,812
West Virginia	1,216	1,480	1,572	2,297	2,087	2,527	2,117	1,984	1,976	2,064	1,906	1,748
Wisconsin	4,028	3,813	4,110	4,145	3,086	3,015	2,242	2,149	2,135	2,927	2,133	2,296
Wyoming	2,555	3,288	2,490	2,241	2,105	1,866	2,733	1,994	2,351	1,482	1,233	1,369
U.S.Total	**542,986**	**548,433**	**538,522**	**556,632**	**574,118**	**613,972**	**639,539**	**669,484**	**722,529**	**804,287**	**838,044**	**925,647**

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annual

Section VII
Table 12b

U.S. SALES OF RESIDUAL FUEL OILS (ALL USES) BY STATE
(Thousand Barrels)

STATE	1973	1974	1975	1976	1977[r]	1978[p]
Alabama	6,151	10,496	13,220	14,684	16,272	16,443
Alaska	1,051	1,098	1,104	1,342	1,738	2,595
Arizona	4,288	6,943	5,182	4,108	7,478	3,413
Arkansas	10,720	10,369	9,006	13,071	17,258	16,747
California	121,059	105,314	113,782	136,080	180,436	140,595
Colorado	2,317	3,177	3,591	3,903	3,502	4,091
Connecticut	43,180	38,546	32,395	32,665	32,183	36,325
Delaware	13,117	12,632	10,239	11,332	11,524	11,376
Dist. of Col.	11,200	7,437	4,239	3,802	4,989	2,235
Florida	82,873	75,440	78,885	92,171	85,323	91,175
Georgia	13,888	13,454	9,831	12,257	12,666	11,988
Hawaii	11,580	11,219	10,776	11,778	12,512	12,796
Idaho	243	597	703	803	697	1,003
Illinois	28,795	28,521	26,948	23,659	26,598	30,111
Indiana	15,536	16,078	14,052	19,188	19,447	19,004
Iowa	679	628	405	588	764	599
Kansas	2,847	2,660	5,945	6,416	6,307	6,686
Kentucky	1,094	2,084	2,127	2,426	2,706	2,506
Louisiana	16,952	25,466	28,393	38,317	52,527	54,252
Maine	19,860	15,272	10,064	13,116	12,234	11,415
Maryland	42,534	39,310	25,538	27,330	26,122	28,217
Massachusetts	86,282	69,385	66,946	76,380	72,242	72,208
Michigan	14,560	14,876	18,739	20,656	21,345	24,871
Minnesota	7,069	5,883	4,322	5,798	4,414	4,576
Mississippi	3,955	7,436	9,752	13,881	20,507	23,308
Missouri	2,959	2,375	2,992	2,948	3,647	3,620
Montana	1,705	2,290	2,186	2,549	2,414	2,665
Nebraska	639	1,045	1,077	1,650	1,189	1,410
Nevada	612	690	1,458	649	1,455	2,756
New Hampshire	5,382	4,786	4,801	5,949	5,916	5,408
New Jersey	79,204	64,417	49,222	58,606	60,947	61,726
New Mexico	1,220	1,714	1,632	1,582	1,503	1,081
New York	169,869	155,327	146,837	157,812	157,773	153,037
North Carolina	15,393	13,819	7,786	12,367	14,499	12,814
North Dakota	898	1,190	1,101	1,045	889	950
Ohio	6,866	8,330	9,957	11,041	14,491	13,431
Oklahoma	1,629	1,201	752	683	661	987
Oregon	7,439	6,650	4,484	3,606	3,395	5,087
Pennsylvania	59,371	57,001	43,997	51,079	60,387	61,366
Rhode Island	8,376	6,316	4,600	4,631	4,678	4,088
South Carolina	9,636	9,777	7,652	11,901	13,570	13,579
South Dakota	234	137	153	299	260	213
Tennessee	650	883	734	3,085	3,404	2,529
Texas	29,208	36,891	41,072	44,195	52,178	63,634
Utah	3,649	4,295	4,698	4,917	4,565	4,441
Vermont	876	535	818	1,285	1,136	1,073
Virginia	46,123	43,274	40,015	40,108	41,171	37,371
Washington	10,986	10,365	8,627	7,675	9,683	12,647
West Virginia	1,448	1,709	1,847	4,148	4,039	3,082
Wisconsin	2,633	1,787	1,872	2,627	2,759	2,613
Wyoming	1,542	2,091	2,020	2,664	2,527	3,090
U.S. Total	**1,030,177**	**963,216**	**898,572**	**1,025,148**	**1,120,927**	**1,103,233**

(r) Revised
(p) Preliminary

Source: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports

May 1981

U.S. SALES OF RESIDUAL FUEL OIL, BY USES
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils	Military Use	Miscel-laneous Uses	All Uses
1947	101,900	60,964	97,500	62,649	115,108	56,402	19,147	6,859	520,529
1948	95,763	56,812	89,588	56,637	117,780	58,639	24,655	6,623	506,497
1949	89,362	80,092	63,467	51,667	122,633	60,414	22,724	4,574	494,933
1950	92,947	93,062	60,878	53,263	148,111	72,716	28,333	4,898	554,208
1951	107,007	70,550	54,998	54,056	157,279	76,164	38,054	5,280	563,388
1952	110,412	70,497	40,489	54,421	158,373	79,151	37,185	5,745	556,273
1953	114,324	85,352	28,477	51,243	166,748	81,824	30,435	6,326	564,729
1954	108,790	70,749	16,122	52,165	160,121	78,845	26,887	7,035	520,714
1955	115,128	75,966	15,018	53,387	173,030	86,282	28,368	9,804	556,983
1956	117,445	73,962	10,575	53,271	177,807	87,601	30,546	10,331	561,538
1957	123,651	75,950	6,953	50,153	166,885	81,412	28,962	9,984	543,950
1958	106,269	76,995	5,772	46,463	143,142	105,639	37,428	9,659	531,367
1959[1]	102,049	82,208	5,613	46,177	167,701	111,850	31,415	7,339	554,352
1960[2]	94,084	85,408	5,610	45,061	157,270	125,088	31,724	6,291	550,536
1961	87,308	87,881	5,347	44,399	153,766	121,097	36,762	6,426	542,986
1962	84,415	88,261	5,501	45,978	156,221	125,164	35,667	7,226	548,433
1963	76,502	91,615	5,342	46,976	149,269	125,248	36,444	7,126	538,522
1964	83,024	97,595	5,350	43,098	157,176	126,215	35,568	8,606	556,632

1/ Includes Alaska
2/ Includes Hawaii

Source: U.S. Bureau of Mines, Sales of Fuel Oil and Kerosine, Annuals

U.S. SALES OF RESIDUAL FUEL OIL, BY USES
(Thousands of Barrels)

Year	Vessels Bunkering	Gas and Electrical Public-Utility Power Plants[1]	Railroads	Oil Company Use	Industrial Use (Excluding Oil Companies)	Heating Oils	Military Use[2]	Miscel- laneous Uses	All Uses
1965	73,639	114,884	4,001	34,354	140,602	156,254	40,380	10,004	574,118
1966	63,641	140,642	3,792	35,177	141,050	167,471	41,861	10,338	613,972
1967	80,680	158,417	5,494	37,880	131,819	175,990	40,465	8,794	639,539
1968	87,575	184,956	4,296	39,329	135,664	174,326	34,990	8,348	669,484
1969	85,581	247,634	3,381	36,559	130,654	178,095	31,750	8,875	722,529
1970	89,850	312,420	2,222	38,318	139,647	185,831	28,704	7,295	804,287
1971	78,727	371,820	1,262	32,626	136,221	182,062	29,217	6,109	838,044
1972	77,932	435,348	1,137	44,291	142,320	191,111	24,622	8,886	925,647
1973	92,415	509,457	1,214	50,652	152,267	192,252	22,892	9,028	1,030,177
1974	91,052	475,204	1,176	50,236	143,726	172,896	20,423	8,503	963,216
1975	96,673	454,935	583	50,487	116,657	154,103	19,068	6,066	898,572
1976	117,458	492,974	423	58,212	153,596	178,139	18,561	5,785	1,025,148
1977	128,966	569,429	329	60,582	171,967	168,279	16,646	4,729	1,120,927
1978	157,495	533,193	206	57,690	169,403	164,536	16,583	4,127	1,103,233

---

[1] Beginning with 1967, represented use by electric public-utility plants only.
[2] Includes imports by military

Source: U.S. Energy Information Administration, Sales of Fuel Oil and Kerosine, Annual Reports

TOTAL U.S. SUPPLY AND DEMAND FOR JET FUEL—NAPHTHA TYPE
(Daily Averages in Thousands of Barrels)

	SUPPLY				DEMAND			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand[2]	Exports	Domestic Demand[2]
1965[1]	226	44	270	8,338	—	270	2	268
1966	245	35	280	7,235	−3	283	4	279
1967	300	15	315	9,037	+5	310	5	305
1968	332	19	351	8,904	—	351	5	346
1969	287	14	301	8,556	−1	302	5	297
1970	230	20	250	6,621	−5	255	6	249
1971	234	30	264	6,990	1	263	3	260
1972	209	33	242	6,147	−2	244	2	242
1973	181	36	217	5,599	−2	219	2	217
1974	195	27	222	5,529	—	222	—	222
1975	180	28	208	5,222	−1	209	—	209
1976	187	15	202	6,495	3	199	—	199
1977	186	21	207	6,285	−1	208	—	208
1978	179	19	198	5,958	−1	199	—	199
1979	176	22	198	5,599	−1	200	—	200
1980[p]	188	31	219	6,308	+2	217	—	217

[p] Preliminary

[1] Data prior to 1965 are not available on a comparable basis.

[2] Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Petroleum Statement, Annual and December issues.

TOTAL U.S. SUPPLY AND DEMAND FOR JET FUEL—KEROSINE TYPE
(Daily Averages in Thousands of Barrels)

	SUPPLY				DEMAND			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1965[1]	298	37	335	10,361	—	335	1	334
1966	345	52	397	13,139	+ 5	392	1	391
1967	448	74	522	13,174	+ 3	519	1	518
1968	529	86	615	15,373	+ 6	609	—	609
1969	594	111	705	19,517	+11	694	—	694
1970	597	125	722	29,989	+ 4	718	—	718
1971	601	150	751	20,747	− 1	752	1	751
1972	638	162	800	19,346	− 3	803	—	803
1973	679	176	855	22,945	+10	845	3	842
1974	641	135	776	23,906	+ 3	773	2	771
1975	691	105	796	25,158	+ 3	793	2	791
1976	731	61	792	25,590	+ 1	791	2	789
1977	788	53	841	28,263	+ 8	833	2	831
1978	791	67	858	27,707	− 1	859	1	858
1979	835	56	891	32,921	+14	877	1	876
1980(p)	811	50	861	35,723	+ 8	853	1	852

(p) Preliminary

[1] Data prior to 1965 are not available on a comparable basis.

Source: U.S. Energy Information Administration, Petroleum Statement, Annual and December issues.

TOTAL U.S. SUPPLY AND DEMAND FOR KEROSINE
(Daily Averages in Thousands of Barrels)

	SUPPLY					DEMAND			
Year	Production	Transfers From Natural Gas Plants	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change In Stocks	Total Demand	Exports	Domestic Demand
1947	302	—	—	302	17.722	+ 1	301	20	281
1948	333	—	—	333	23.941	+17	316	9	307
1949	280	—	—	280	20.888	8	288	7	281
1950	325	—	—	325	19.723	3	328	5	323
1951	372	—	—	372	27.088	+16	356	19	337
1952	351	—	—	351	26.529	1	352	21	331
1953	337	—	—	337	28.684	+ 4	333	19	314
1954	335	—	—	335	27.826	2	337	13	324
1955	326	—	—	326	26.770	3	329	9	320
1956	337	5	—	342	31.420	+12	330	9	321
1957	298	5	—	303	29.200	6	309	14	295
1958	301	4	—	305	26.040	8	313	3	310
1959[1]	303	2	—	305	26.856	+ 1	304	3	301
1960[2]	371	3	—	374	31.445	+10	364	2	362
1961	387	4	8	399	32.433	+ 3	396	1	395
1962	428	3	18	449	31.725	2	451	1	450
1963	451	3	24	478	34.102	+ 4	474	2	472
1964	459	4	31	494	36.165	+ 6	488	—	488
1965[3]	255	4	—	259	24.080	9	268	1	267
1966	276	3	1	280	25.004	+ 2	278	1	277
1967[4]	274	—	—	274	25.366	—	274	—	274
1968	278	—	—	278	23.480	5	283	2	281
1969	282	—	3	285	26.780	+ 9	276	1	275
1970	262	—	4	266	27.848	+ 3	263	—	263
1971	240	—	1	241	24.438	9	250	1	249
1972	219	—	1	220	19.111	16	236	—	236
1973	220	—	2	222	21.022	+ 6	216	—	216
1974	156	—	5	161	15.269	15	176	—	176

1/ These figures and those for subsequent years are on a 50 state basis.
2/ These figures and those through 1964 include commercial jet fuel.
3/ These figures and those for subsequent years exclude kerosine-type jet fuel.
4/ Beginning with 1967 production at refineries and at plants are combined in one total.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

TOTAL U.S. SUPPLY AND DEMAND FOR KEROSINE
(Daily Averages in Thousands of Barrels)

	SUPPLY					DEMAND			
Year	Production	Transfers From Natural Gas Plants	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand[1]	Exports	Domestic Demand
1975	152	—	3	155	15,571	− 4	159	—	159
1976	152	—	9	161	12,514	− 8	169	—	169
1977	171	—	19	190	18,056	+15	175	—	175
1978	154	—	11	165	14,330	−10	175	—	175
1979	183	—	9	192	15,824	+ 4	189	—	189
1980(p)	137	—	10	147	11,570	−12	159	—	159

(p) Preliminary

[1] Totals may not add due to independent rounding.

Source: U.S. Energy Information Administration, Petroleum Statement, Annual and December issues.

U.S. TOTAL SUPPLY AND DEMAND FOR NATURAL GAS LIQUIDS AND LIQUEFIED REFINERY GASES

(Daily Averages in Thousands of Barrels)

	SUPPLY								DEMAND					
						STOCKS (1000's/BBL/Dec. 31)			CHANGE IN STOCKS					
	Production					Natural Gas Liquids		Liquefied	Natural Gas Liquids		Liquefied			
Year	At Plants	At Refineries	Total	Imports[1]	New Supply	At Plants & Terminals	At Refineries	Refinery Gases	At Plants & Terminals	At Refineries	Refinery Gases	Total Demand	Exports	Domestic Demand
1947	362	51	413	—	413	2,857	1,438	n.a.	- 2	—	—	415	17	398
1948	400	64	464	—	464	4,046	1,533	593	+ 3	—	—	461	14	447
1949	430	64	494	—	494	4,897	1,934	527	+ 2	+1	—	491	15	476
1950	499	79	578	—	578	5,087	2,268	657	+ 1	+1	—	576	7	569
1951	560	91	651	—	651	5,544	2,642	668	+ 1	+1	—	649	10	639
1952	611	84	695	—	695	5,724	2,083	638	—	-1	—	696	11	685
1953	654	91	745	—	745	8,573	1,855	792	+ 8	-1	+1	737	11	726
1954	691	94	785	—	785	11,474	2,564	941	+ 8	+2	+1	774	12	762
1955	771	119	890	—	890	11,190	2,374	1,032	—	-1	—	891	12	879
1956	800	142	942	—	942	18,324	2,235	1,393	+19	—	+1	922	12	910
1957	808	146	954	—	954	19,551	2,016	1,913	+ 3	-1	+2	950	13	937
1958	807	158	965	—	965	20,761	1,991	2,207	+ 7	—	+1	957	8	949
1959[2]	879	188	1,067	—	1,067	23,040	1,847	2,520	+ 6	—	+1	1,060	5	1,055
1960	929	212	1,141	5	1,146	26,861	2,070	3,623	+10	+1	+3	1,132	8	1,124
1961	991	216	1,207	5	1,212	34,632	2,435	6,298	+21	+1	+7	1,183	10	1,173
1962	1,021	211	1,232	6	1,238	28,437	2,948	4,769	-17	+1	-4	1,258	11	1,247
1963	1,098	261	1,359	7	1,366	30,961	2,786	3,886	+ 7	-1	-2	1,362	12	1,350
1964	1,155	291	1,446	11	1,457	32,425	3,254	3,692	+ 4	+1	—	1,452	15	1,437
1965	1,210	292	1,502	21	1,523	33,485	2,382	3,665	+ 3	-2	-1	1,523	22	1,501
1966	1,284	291	1,575	29	1,604	38,233	2,190	3,336	+13	—	-1	1,592	24	1,568
1967	1,409	306	1,715	27	1,742	62,249	2,773	4,925	+68	+2	+4	1,668	25	1,643
1968	1,504	322	1,826	32	1,858	74,069	2,644	4,373	+34	—	-2	1,826	29	1,797
1969	1,590	338	1,928	35	1,963	57,896	2,360	5,050	-46	-1	+2	2,008	35	1,973
1970	1,660	345	2,005	52	2,057	65,425	3,010	5,654	+21	+2	+2	2,032	27	2,005
1971	1,693	357	2,050	106	2,156	87,931	5,597	7,361	+62	+7	+4	2,083	26	2,057
1972	1,744	356	2,100	174	2,274	79,006	5,005	7,781	-24	-2	+1	2,299	31	2,268
1973	1,738	375	2,113	239	2,352	93,923	4,834	7,719	+41	—	—	2,311	27	2,284
1974	1,688	338	2,026	211	2,237	108,243	5,918	5,931	+39	+3	-5	2,200	25	2,175

---

[1] Prior to 1960 figures included with gasoline.

[2] These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

U.S. TOTAL SUPPLY AND DEMAND FOR NATURAL GAS LIQUIDS AND LIQUEFIED REFINERY GASES
(Daily Averages in Thousands of Barrels)

	SUPPLY					STOCKS (1000's/BBL/Dec. 31)			DEMAND					
									CHANGE IN STOCKS					
	Production					Natural Gas Liquids			Natural Gas Liquids					
Year	At Plants	At Refineries	Total	Imports	New Supply	At Plants & Terminals	At Refineries	Liquefied Refinery Gases	At Plants & Terminals	At Refineries	Liquefied Refinery Gases	Total Demand	Exports	Domestic Demand
1975	1,633	311	1,944	185	2,129	118,214	6,064	8,375	+27	—	+7	2,095	26	2,069
1976	1,604	340	1,944	197	2,141	112,256	5,073	7,189	−16	− 3	−3	2,163	25	2,136
1977	1,618	352	1,970	203	2,173	129,436	7,642	7,824	+47	+ 7	+2	2,117	18	2,099
1978	1,567	354	1,921	139	2,060	127,479	5,160	7,413	− 5	−36	−1	2,101	20	2,081
1979(p)	1,584	340	1,924	230	2,154	115,644	3,645	6,000	−32	−4	−4	2,194	15	2,179

(p) Preliminary

Source: U.S. Energy Information Administration, Annual Petroleum Statement.

TOTAL U.S. SUPPLY AND DEMAND FOR LUBRICANTS
(Daily Averages in Thousands of Barrels)

	SUPPLY				DEMAND			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change In Stocks	Total Demand	Exports	Domestic Demand
1947	141	—	141	8,624	+ 2	139	41	98
1948	140	—	140	9,843	+ 5	135	37	98
1949	124	—	124	9,219	- 2	126	35	91
1950	141	—	141	7,849	- 4	145	39	106
1951	168	—	168	9,617	+ 4	164	48	116
1952	151	—	151	11,021	+ 3	148	44	104
1953	144	—	144	10,070	- 2	146	35	111
1954	145	—	145	9,702	- 1	146	41	105
1955	153	—	153	8,763	- 3	156	39	117
1956	161	—	161	10,183	+ 3	158	38	120
1957	152	—	152	10,864	+ 1	151	38	113
1958	140	—	140	9,687	- 3	143	35	108
1959[1]	154	—	154	8,950	- 2	156	38	118
1960	162	—	162	9,874	+ 2	160	43	117
1961	162	—	162	12,943	+ 2	160	47	113
1962	168	—	168	13,130	—	168	48	120
1963	173	—	173	14,321	+ 3	170	50	120
1964	174	—	174	14,062	- 1	175	50	125
1965	172	—	172	13,304	- 2	174	45	129
1966	179	—	179	12,682	- 2	181	47	134
1967	178	—	178	14,774	+ 6	172	51	121
1968	180	—	180	14,023	- 2	182	49	133
1969	178	1	179	14,088	—	179	45	134
1970	181	1	182	14,712	+ 2	180	44	136
1971	179	—	179	15,049	+ 1	178	43	135
1972	179	1	180	13,271	- 5	185	41	144
1973	188	6	194	12,186	- 3	197	35	162
1974	194	5	199	16,060	+11	188	33	155

---

[1] These figures and those for subsequent years are on a 50 state basis.

Source: U.S. Bureau of Mines, Petroleum Statement, Annual and December issues.

TOTAL U.S SUPPLY AND DEMAND FOR LUBRICANTS
(Daily Averages in Thousands of Barrels)

	SUPPLY				DEMAND			
Year	Production	Imports	New Supply	Stocks as of Dec. 31 (thousands of barrels)	Change in Stocks	Total Demand	Exports	Domestic Demand
1975	154	3	157	14,337	−5	162	25	137
1976	169	4	173	12,274	−5	178	26	152
1977	177	9	186	12,095	0	186	26	160
1978	190	8	198	12,233	0	198	27	171
1979	194	9	203	12,549	+1	202	23	179
1980(p)	178	7	185	13,483	+3	182	23	160

(p) Preliminary

Source: U.S. Energy Information Administration, Petroleum Statement, Annual and December issues.

SECTION VIII. REFINING

Table 1. Estimated Worldwide Crude Oil Refining Capacity by Area

Table 2. Worldwide Crude Oil Refinery Runs

Table 3. U.S. Crude Oil Refining Capacity

Table 4. Percentage Yields of Refined Petroleum Products From Crude Oil in the United States

Table 5. U.S. Crude Oil Refinery Runs by P.A.D. District-Domestic vs. Foreign

Table 6. Number and Capacity of U.S. Petroleum Refineries

BEST AVAILABLE COPY

ESTIMATED WORLDWIDE CRUDE OIL REFINING CAPACITY BY AREA
AS OF JANUARY 1
(Barrels per day)

Year	United States[1]	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Asia	Europe	Total Free World	Sino Soviet Bloc	Total World	U.S. as a % of Free World	U.S. as a % of Total World	Year
1947	5,569,482	1,387,452	6,956,934	733,500	48,750	174,405	630,445	8,544,034	575,000[2]	9,119,034	65.1%	61.1%	1947
1948	6,034,252	1,479,350	7,513,602	859,100	47,750	202,850	682,990	9,306,292	650,000[2]	9,956,292	64.8	60.6	1948
1949	6,438,995	1,722,370	8,161,365	915,100	49,000	283,800	1,049,980	10,459,245	650,000[2]	11,109,245	61.6	58.0	1949
1950	6,696,300	1,450,500	8,146,800	916,500	39,000	266,000	859,200	10,227,500	1,134,000	11,361,500	65.5	58.9	1950
1951	6,963,644	1,770,400	8,734,044	940,900	41,000	282,900	1,014,900	11,013,744	1,010,000[2]	12,023,744	63.2	57.9	1951
1952	7,332,885	1,700,100	9,032,985	950,000	49,000	344,000	1,495,000	11,870,985	1,108,100[2]	12,979,085	61.8	56.5	1952
1953	7,619,720	2,180,200	9,799,920	1,093,900	52,100	379,200	1,835,400	13,160,520	1,087,000	14,247,520	57.9	53.5	1953
1954	7,983,977	2,392,700	10,376,677	1,159,100	72,400	459,800	2,077,500	14,145,477	1,246,100	15,391,577	56.4	51.9	1954
1955	8,386,044	2,566,500	10,952,544	1,184,300	68,400	613,700	2,365,900	15,184,844	1,784,000	16,968,844	55.2	49.4	1955
1956	8,582,636	2,776,800	11,359,436	1,272,800	72,400	731,000	2,373,700	15,809,336	1,481,000	17,290,336	54.3	49.6	1956
1957	9,071,697	3,087,400	12,159,097	1,235,200	93,400	876,000	2,762,700	17,126,397	1,550,000	18,676,397	53.0	48.6	1957
1958	9,358,307	3,438,600	12,796,907	1,253,700	98,400	1,088,500	2,902,900	18,140,407	[3]	[3]	51.6	—	1958
1959	9,761,446	3,680,500	13,441,946	1,432,800	100,100	1,229,600	3,633,200	19,837,646	[3]	[3]	49.2	—	1959
1960	9,842,624	3,762,300	13,604,924	1,434,800	116,500	1,374,600	3,977,500	20,508,324	3,322,000	23,830,324	48.0	41.3	1960
1961	9,998,573	4,188,000	14,186,573	1,481,800	122,500	1,431,700	4,476,100	21,698,673	[3]	[3]	46.0	—	1961
1962	10,033,047	4,442,900	14,475,947	1,514,100	140,300	1,913,000	4,918,100	22,961,447	[3]	[3]	43.7	—	1962
1963	10,010,921	4,687,200	14,698,121	1,754,900	196,800	2,129,800	5,149,400	23,929,021	[3]	[3]	41.8	—	1963
1964	10,305,774	4,828,400	15,134,174	1,801,300	365,200	2,537,000	6,263,500	26,101,174	[3]	[3]	39.5	—	1964
1965	10,419,851	5,021,500	15,441,351	1,801,400	502,900	3,176,600	7,510,500	28,432,751	4,656,000	33,088,751	36.6	31.5	1965
1966[r]	10,393,839	5,344,500	15,738,339	1,910,200	613,300	3,516,700	8,541,900	30,320,439	3,976,000	34,296,439	34.3	30.3	1966[r]
1967	10,658,407	5,544,500	16,202,907	1,960,200	704,500	3,955,700	9,526,900	32,350,207	[3]	[3]	32.9	—	1967
1968[r]	11,353,404	5,883,100	17,236,504	2,052,700	720,100	4,323,900	11,085,000	35,418,204	5,925,000	41,343,204	32.1	27.5	1968[r]
1969[r]	11,702,309	6,290,200	17,992,509	2,296,500	756,100	4,919,800	12,884,300	38,849,209	6,345,000	45,194,209	30.1	25.9	1969[r]
1970[r]	12,021,273	6,512,500	18,533,773	2,437,900	784,900	5,565,900	13,941,400	41,263,873	7,092,000	48,355,873	29.1	24.9	1970[r]
1971[r]	12,860,228	7,128,600	19,988,828	3,171,700	924,900	6,060,900	15,177,200	45,323,528	7,860,000	53,183,528	28.4	24.2	1971[r]
1972[r]	13,292,468	7,578,600	20,871,068	2,851,300	902,400	6,817,700	16,982,800	48,425,268	8,420,000	56,845,268	27.4	23.4	1972[r]
1973[r]	13,671,384	8,175,800	21,847,184	2,757,700	825,100	7,915,700	16,826,700	50,172,384	9,110,000	59,282,384	27.2	23.1	1973[r]
1974[r]	14,361,536	9,053,800	23,415,336	2,882,200	1,092,200	8,932,700	18,110,100	54,432,536	9,686,000	64,118,536	26.4	22.4	1974[r]
1975[r]	14,960,710	9,536,103	24,496,813	3,280,613	1,083,305	9,397,360	18,718,363	56,976,454	10,575,000	67,551,454	26.3	22.1	1975[r]

---

[r] Revised
[1] Includes operating capacity plus operable shutdown but excludes inoperable shutdown capacity
[2] Estimates for U.S.S.R. only
[3] Data not available

Source: United States: U.S. Bureau of Mines, Petroleum Refineries in the United States and Puerto Rico: Annual
Rest of the World: Oil & Gas Journal, "World Wide Issues" and "International Petroleum Encyclopedia"

July 1976

Section VIII
Table 1

ESTIMATED WORLDWIDE CRUDE OIL REFINING CAPACITY BY AREA
AS OF JANUARY 1
(Barrels per day)

Year	United States[1]	Other Western Hemisphere	Total Western Hemisphere	Middle East	Africa	Asia-Pacific	Europe	Total Free World	Sino Soviet Bloc	Total World	U.S. as a % of Free World	U.S. as a % of Total World	Year
1976	15,236,621	9,713,093	24,949,714	3,284,951	1,328,200	9,868,344	19,972,306	59,403,515	12,406,000	71,809,515	25.6%	21.2%	1976
1977	16,398,372	10,015,186	26,413,558	3,347,855	1,444,400	10,047,965	20,859,376	62,113,154	13,067,810	75,180,964	26.4	21.8	1977
1978	17,047,724	10,592,020	27,352,020	3,506,484	1,467,157	10,176,819	20,728,204	63,352,984	13,938,000	77,290,984	26.5	21.7	1978
1979	17,440,885	10,273,030	27,713,915	3,546,029	1,667,608	10,284,966	20,328,614	63,541,132	14,748,000	78,289,132	27.4	22.3	1979
1980	17,825,967	10,683,671	26,509,638	3,518,080	1,666,108	10,386,375	20,243,747	64,323,948	15,346,000	79,669,948	27.7	22.4	1980
1981	18,400,000	10,716,881	29,116,881	3,729,646	1,697,658	10,554,691	20,205,799	65,304,675	16,036,500	81,341,175	28.2	22.6	1981

(1) Includes operating capacity plus operable shutdown but excludes inoperable shutdown capacity

Source: United States: U.S. Energy Information Administration, Petroleum Refineries in the United States and Puerto Rico: Annual
Rest of the World: Oil & Gas Journal, "Worldwide Report" Issue.
1981—Oil and Gas Journal, "Worldwide Report" Issue

WORLDWIDE CRUDE OIL REFINERY RUNS
(Thousands of barrels per day)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975[r]	1976[p]
United States	9,043	9,444	9,815	10,312	10,629	10,870	11,200	11,696	12,431	12,133	12,442	13,416
Canada	975	1,040	1,070	1,135	1,190	1,280	1,395	1,535	1,675	1,765	1,700	1,710
Latin America	3,905	4,030	4,170	4,350	4,590	4,905	5,295	5,445	5,970	5,890	5,515	5,670
Western Europe	7,175	8,080	8,830	10,045	11,195	12,730	13,145	13,910	15,065	14,175	12,415	13,625
Middle East	1,525	1,580	1,645	1,765	1,875	2,105	2,240	2,165	2,170	2,330	2,075	2,300
Africa	465	540	570	520	535	710	740	815	905	910	975	1,020
South Asia	270	300	370	420	505	525	545	540	590	550	485	550
South East Asia	515	610	635	890	920	1,020	1,265	1,385	1,705	1,560	1,545	1,865
Japan	1,370	1,650	2,005	2,540	2,995	3,470	3,855	3,850	4,430	4,300	4,090	4,305
Australasia	375	415	465	500	510	565	565	575	620	625	635	655
Total Non-Communist World	25,618	27,689	29,575	32,477	34,944	38,180	40,245	41,916	45,561	44,238	41,877	45,116
Communist Nations	4,890	5,270	5,655	6,115	6,705	7,335	7,845	8,555	9,365	10,185	11,025	11,575
Total World	30,508	32,959	35,230	38,592	41,649	45,515	48,090	50,471	54,926	54,423	52,902	56,691

[p] Preliminary
[r] Revised

Source: U.S. Bureau of Mines: Crude Petroleum, Petroleum Products, and Natural Gas Liquids, Annual and December Issues
Rest of the World, BP Statistical Review of the World Oil Industry, Annual Reports

WORLDWIDE CRUDE OIL REFINERY RUNS
(Thousands of barrels per day)

	1977	1978	1979(r)	1980(p)
United States	14,602	14,739	14,648	13,483
Canada	1,805	1,820	1,960	2,085
Latin America	5,715	5,975	6,220	6,695
Western Europe	13,550	13,505	14,160	12,925
Middle East	2,240	2,535	2,365	2,520
Africa	1,130	1,260	1,355	1,460
South Asia	605	645	675	705
South East Asia	2,030	2,330	2,450	2,370
Japan	4,375	4,240	4,340	4,015
Australasia	680	690	700	640
Total Non-Communist World	46,738	47,780	48,873	46,898
Communist Nations	11,930	12,875	13,230	13,320
Total World	58,668	60,655	62,103	60,218

(r) Revised
(p) Preliminary

Source: 1977-1980: U.S.—Energy Information Administration,
Rest of World-BP Statistical Review of the World Oil Industry, Annual Reports

U.S. CRUDE OIL REFINING CAPACITY

(AS OF JANUARY 1)

Year	NUMBER OF REFINERIES			CRUDE OIL THROUGHPUT CAPACITY					Year
	Operating	Shutdown	Total	Operating	Operable Shutdown	Inoperable Shutdown[1]	Total Operating and Operable Shutdown	Total Operating, Operable Shutdown and Inoperable Shutdown	
1947	361	38	399	5,336,399	233,083[2]		5,569,482[2]		1947
1948	352	38	390	5,825,566	208,686[2]		6,034,252[2]		1948
1949	336	39	375	6,230,505	208,490[2]		6,438,995[2]		1949
1950	320	47	367	6,222,998	473,302[2]		6,696,300[2]		1950
1951	325	32	357	6,701,815	261,829[2]		6,963,644[2]		1951
1952	327	23	350	7,161,366	171,519[2]		7,332,885[2]		1952
1953	315	28	343	7,481,701	138,019	18,941	7,619,720	7,638,661	1953
1954	308	29	337	7,782,103	201,874	22,920	7,983,977	8,006,897	1954
1955	296	30	326	8,069,154	316,890	34,586	8,386,044	8,420,630	1955
1956	294	24	318	8,380,801	201,835	49,754	8,582,636	8,632,390	1956
1957	298	21	319	8,808,841	262,856	51,977	9,071,697	9,123,674	1957
1958	289	29	318	8,939,907	418,400	49,400	9,358,307	9,407,707	1958
1959	291	22	313	9,450,741	310,705	58,400	9,761,446	9,819,846	1959
1960	290	20	310	9,543,329	299,295	58,800	9,842,624	9,901,424	1960
1961	289	22	311	9,629,685	368,888	11,500	9,998,573	10,010,073	1961
1962	287	24	311	9,812,248	220,799	72,100	10,033,047	10,105,147	1962
1963	287	21	308	9,814,791	196,130	107,400	10,010,921	10,118,321	1963
1964	282	22	304	10,063,164	242,610	79,600	10,305,774	10,385,374	1964
1965	273	27	300	10,161,311	258,540	354,744	10,419,851	10,774,595	1965
1966	267	19	286	10,171,159	222,680	98,900	10,393,839	10,492,739	1966
1967	260	21	281	10,412,447	245,960	101,200	10,658,407	10,759,607	1967
1968	270	21	291	11,172,694	180,710	179,450	11,353,404	11,532,854	1968
1969	264	20	284	11,575,829	126,480	37,200	11,702,309	11,739,509	1969
1970	262	19	281	11,882,393	138,880	53,050	12,021,273	12,074,323	1970
1971	253	26	279	12,658,248	201,980	159,750	12,860,228	13,019,978	1971
1972	250	32	282	13,034,818	257,650	145,000	13,292,468	13,437,468	1972
1973	253	28	281	13,482,909	188,475	132,200	13,671,384	13,803,584	1973
1974	257	27	284	14,220,316	141,220	127,900	14,361,536	14,489,436	1974
1975	262	28	290	14,696,750	263,960	208,100	14,960,710	15,168,810	1975

---

[1] Facilities inoperable, needing extensive reconditioning

[2] Not identified separately prior to 1953

Source: U.S. Bureau of Mines, "Petroleum Refineries in the United States and Puerto Rico" Annual

U.S. CRUDE OIL REFINING CAPACITY[1]
(AS OF JANUARY 1)

	NUMBER OF REFINERIES			CRUDE OIL THROUGHPUT CAPACITY (BARRELS PER DAY)					
Year	Operating	Shutdown[3]	Total	Operating	Operable Shutdown	Inoperable Shutdown[2]	Total Operating and Operable Shutdown	Total Operating, Operable Shutdown and Inoperable Shutdown	Year
1976	265	22	287	14,867,529	369,092	190,900	15,236,621	15,427,521	1976
1977	273	18	291	15,861,735	536,637	211,500	16,398,372	16,609,872	1977
1978	290	12	302	16,793,724	254,000	182,223	17,047,724	17,229,947	1978
1979	301	10	311	17,147,875	293,010	103,500	17,440,885	17,544,385	1979
1980	311	8	319	17,612,[illegible]52	376,469	NA	17,988,121	NA	1980
1981	315	9	324	19,123,245	639,967	NA	19,763,212	NA	1981

[1] Does not include Puerto Rico refineries

[2] Facilities inoperable, needing extensive reconditioning

[3] Figures beginning with 1980 are for operable shutdown only

Source: U.S. Energy Information Administration, "Petroleum Refineries in the United States and U.S. Territories" Annual
Formerly Titled, "Petroleum Refineries in the United States and Puerto Rico" Annual

PERCENTAGE YIELDS OF REFINED PETROLEUM PRODUCTS FROM CRUDE OIL[1] IN THE UNITED STATES—ANNUALLY 1964-1977

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Gasoline	44.1	44.0	44.4	44.0	43.9	44.8	45.3	46.2	46.2	45.6	45.9	46.5	45.5	43.4
Jet Fuel	5.6	5.7	6.2	7.5	8.3	8.2	7.5	7.4	7.2	6.8	6.8	7.0	6.8	6.6
Ethane (including Ethylene)	—[2]	—[2]	—[2]	—[2]	—[2]	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Liquefied Gases	3.3	3.2	3.0	3.1	3.1	2.9	3.0	2.9	2.8	2.8	2.6	2.4	2.4	2.3
Kerosine	2.9	2.8	2.9	2.7	2.7	2.6	2.3	2.1	1.8	1.7	1.3	1.2	1.1	1.2
Distillate Fuel Oil	22.8	22.9	22.5	22.2	22.1	21.7	22.4	22.0	22.2	22.5	21.8	21.3	21.8	22.4
Residual Fuel Oil	8.2	8.1	7.6	7.7	7.2	6.8	6.4	6.6	6.8	7.7	8.7	9.9	10.3	12.0
Petrochemical Feedstocks	1.8	1.7	2.1	2.4	2.5	2.5	2.5	2.7	2.9	2.9	3.0	2.7	3.3	3.6
Special Naphthas	0.8	0.9	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.6	0.7	0.6
Lubricants	2.0	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.2	1.3	1.2
Wax	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1
Coke	2.6	2.5	2.5	2.5	2.5	2.6	2.7	2.6	2.8	2.9	2.8	2.8	2.6	2.5
Asphalt	3.5	3.7	3.8	3.5	3.6	3.5	3.6	3.8	3.6	3.6	3.7	3.2	2.8	2.9
Road Oil	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.0	0.1
Still Gas	4.0	4.1	3.9	3.9	4.0	4.1	4.1	3.8	3.9	3.9	3.9	3.9	3.7	3.6
Miscellaneous	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.7	1.0	1.0
Shortage[3]	-2.4	-2.4	-2.5	-2.9	-3.0	-3.1	-3.2	-3.4	-3.3	-3.6	-3.9	-3.7	-3.5	-3.6
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

---

[1] Other unfinished oils added to crude oil in computing yield

[2] Included with liquefied gases

[3] Processing Gain (-) or Loss (+)

Source: U.S. Energy Information Administration

PERCENTAGE YIELDS OF REFINED PETROLEUM PRODUCTS FROM CRUDE OIL(1) IN THE UNITED STATES

	1978(r)	1979(p)
Gasoline	44.1	43.0
Jet Fuel	6.6	6.9
Ethane (Including Ethylene)	0.1	0.1
Liquefied Gases	2.3	2.3
Kerosine	1.0	1.3
Distillate Fuel Oil	21.4	21.5
Residual Fuel Oil	11.3	11.5
Petrochemical Feedstocks	4.1	4.7
Special Naphthas	0.7	0.6
Lubricants	1.3	1.3
Wax	0.1	0.1
Coke	2.5	2.6
Asphalt	3.2	3.1
Road Oil	0.1	—
Still Gas	3.7	3.8
Miscellaneous	0.9	0.8
Shortage(2)	−3.4	−3.6
TOTAL	100.0	100.0

(r) Revised

(p) Preliminary

(1) Other unfinished oils added to crude oil in computing yield

(2) Processing Gain (−) or Loss (+)

Source: U.S. Energy Information Administration, Annual Petroleum Statements.

U.S. CRUDE OIL REFINERY RUNS BY P.A.D. DISTRICT — DOMESTIC vs FOREIGN

(Thousands of barrels per day)

	DISTRICT I		DISTRICT II		DISTRICT III		DISTRICT IV		DISTRICT V		TOTAL			
Year	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Total Crude Runs	Foreign Crude Runs as a % of Total Crude Runs
1947	648	265	1,312	—	1,889	2	133	—	826	—	4,808	267	5,075	5.3%
1948	640	326	1,418	—	2,154	13	151	—	895	—	5,258	339	5,597	6.1
1949	486	374	1,404	—	1,973	46	165	—	876	3	4,904	423	5,327	7.9
1950	545	459	1,594	—	2,053	23	185	—	880	—	5,257	482	5,739	8.4
1951	641	477	1,796	1	2,398	10	215	—	947	10	5,997	498	6,495	7.7
1952	618	517	1,845	3	2,463	12	223	—	958	31	6,107	563	6,670	8.4
1953	601	552	1,949	7	2,601	8	235	—	975	71	6,361	638	6,999	9.1
1954	549	585	1,953	7	2,594	12	238	—	970	51	6,304	655	6,959	9.4
1955	530	633	2,119	18	2,832	30	255	—	968	95	6,704	776	7,480	10.4
1956	559	669	2,224	54	3,010	32	268	1/	943	178	7,004	933	7,937	11.8
1957	640	656	2,219	60	2,898	24	273	1/	900	249	6,930	989	7,919	12.5
1958	555	644	2,224	71	2,760	43	266	1/	892	188	6,697	946	7,643	12.4
1959	574	641	2,340	59	2,922	27	290	1/	902	238	7,028	965	7,993	12.1
1960	550	667	2,349	66	2,978	6	285	1/	891	275	7,053	1,014	8,067	12.6
1961	573	650	2,347	86	3,020	6	284	1/	910	308	7,134	1,050	8,184	12.8
1962	546	668	2,366	97	3,174	4	303	1/	898	354	7,287	1,123	8,410	13.4
1963	566	680	2,445	96	3,322	3	298	9	926	342	7,557	1,130	8,687	13.0
1964	523	689	2,463	107	3,408	2	307	13	911	384	7,612	1,195	8,807	13.6
1965	489	711	2,533	112	3,506	1/	317	13	957	405	7,802	1,241	9,043	13.7
1966	548	711	2,660	130	3,664	1	325	13	1,024	368	8,221	1,223	9,444	13.0
1967	680	587	2,693	156	3,901	2	326	18	1,095	357	8,695	1,120	9,815	11.4
1968	596	707	2,744	214 2/	4,116	2	339	27	1,243	324	9,038	1,274	10,312	12.4
1969	560	749	2,773	240 2/	4,263	1/	351	35	1,267	391	9,214	1,415	10,629	13.3
1970	706	584	2,844	310 2/	4,357	—	345	47	1,297	380	9,549	1,321	10,870	12.2
1971	649	682	2,853	377 2/	4,438	54	360	45	1,239	503	9,539	1,661	11,200	14.8
1972	347	971	2,850	461 2/	4,741	75	360	37	1,193	661	9,491	2,205	11,696	18.9
1973	237	1,264	2,774	711 2/	4,656	398	372	44	1,167	808	9,206	3,225	12,431	25.9
1974	236	1,173	2,654	679 2/	4,317	786	376	44	1,098	770	8,681	3,452	12,133	28.5
1975 p/	166	1,242	2,637	775 2/	4,078	1,182	380	45	1,086	851	8,347	4,095	12,442	32.9

---

p/ Preliminary
1/ Less than 1,000 barrels daily
2/ Includes some Athabasca hydrocarbons

Source: Bureau of Mines, Petroleum Statement, Annual and December issues

July 1976

U.S. CRUDE OIL REFINERY RUNS BY P.A.D. DISTRICT — DOMESTIC vs. FOREIGN
(Thousands of barrels per day)

	DISTRICT I		DISTRICT II		DISTRICT III		DISTRICT IV		DISTRICT V		TOTAL		Total Crude Runs	Foreign Crude Runs as a % of Total Crude Runs
Year	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign		
1976	170	1,415	2,611	989[2]	3,957	1,760	391	51	1,038	1,034	8,167	5,249	13,416	39.1
1977	137	1,542	2,389	1,395	3,888	2,472	427	54	1,221	1,119	8,062	6,582	14,644	44.9
1978	205	1,513	2,392	1,416	3,803	2,636	433	54	1,660	627	8,493	6,246	14,739	42.4
1979	166	1,480	2,238	1,491	3,584	2,806	415	62	1,865	539	8,269	6,379	14,648	43.6

[2] Includes some Athabasca hydrocarbons.

Source: U.S. Energy Information Administration, P.A.D. Supply/Disposition Annual

NUMBER AND CAPACITY OF U.S. PETROLEUM REFINERIES (1)

P.A.D. District and State	Number of Refineries			Crude Capacity				Charge Capacity (2)							
				Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distil-lation	Thermal Operation	Catalytic Cracking (fresh)	Catalytic Cracking (recycle)	Catalytic Reforming	Catalytic Hydro-cracking	Catalytic Hydro-refining	Catalytic Hydro-treating
	Total	Operating	Shutdown	Operating	Shutdown	Operating	Shutdown								
P.A.D. District I															
Delaware	1	1	0	140,000	0	150,000	0	90,700	44,000	62,000	15,000	42,000	20,000	0	110,000
Florida	2	1	1	13,000	28,400	14,000	30,500	10,000	0	0	0	0	0	0	0
Georgia	2	2	0	29,000	0	32,200	0	0	0	0	0	0	0	0	0
Maryland	2	2	0	29,200	0	31,000	0	14,300	0	0	0	0	0	0	0
New Hampshire	1	1	0	13,400	0	14,100	0	0	0	0	0	0	0	0	0
New Jersey	6	5	1	672,100	74,900	710,000	78,500	347,900	34,500	247,300	45,000	124,700	0	130,000	268,600
New York	3	3	0	140,900	0	146,405	0	46,000	0	41,000	6,000	22,500	0	15,200	23,500
North Carolina	1	1	0	11,900	0	12,500	0	0	0	0	0	0	0	0	0
Pennsylvania	10	9	1	737,200	63,300	782,449	68,500	357,180	0	216,300	23,300	233,334	55,000	114,500	379,061
Virginia	1	1	0	53,000	0	55,000	0	29,000	15,000	28,000	5,000	9,500	0	0	26,500
West Virginia	3	3	0	22,300	0	23,000	0	6,000	0	0	0	6,600	4,440	0	0
Total District I	32	29	3	1,862,000	166,600	1,970,654	177,500	901,080	93,500	594,600	94,300	438,634	79,440	259,700	807,661
P.A.D. District II															
Illinois	12	12	0	1,128,100	75,000	1,191,152	80,000	434,000	129,100	442,000	30,400	314,900	66,500	6,000	604,000
Indiana	9	7	2	595,300	12,600	630,000	13,487	262,200	23,000	209,000	15,000	124,500	0	45,000	196,160
Kansas	11	11	0	456,009	0	486,583	0	148,610	50,000	176,300	42,800	122,000	3,190	40,000	156,800
Kentucky	4	4	0	246,600	0	255,500	0	101,000	2,600	71,500	0	49,000	0	91,000	53,500
Michigan	6	5	1	128,600	20,000	137,300	20,000	26,000	0	43,000	1,300	35,000	0	17,700	18,700
Minnesota	3	3	0	217,943	0	225,125	0	119,000	22,000	85,300	0	34,100	0	106,800	16,100
Missouri	1	1	0	104,000	0	111,000	0	40,000	13,500	42,000	12,000	16,000	0	0	61,500
Nebraska	1	1	0	5,600	0	6,170	0	2,400	0	2,400	500	750	0	0	0
North Dakota	3	3	0	65,658	0	69,300	0	0	1,000	26,000	5,200	12,500	0	0	13,500
Ohio	7	7	0	593,400	0	618,000	0	214,500	27,400	206,500	35,800	170,700	81,000	31,500	177,000
Oklahoma	12	12	0	562,510	0	579,358	0	189,200	53,800	205,000	18,600	125,150	5,000	26,000	129,800
Tennessee	1	1	0	49,000	0	50,000	0	12,000	0	30,000	12,000	9,300	0	0	29,500
Wisconsin	1	1	0	40,000	0	46,800	0	15,000	0	9,500	1,000	9,800	0	0	17,300
Total District II	71	68	3	4,192,720	107,600	4,405,288	113,487	1,563,910	322,400	1,548,500	174,600	1,023,700	155,690	364,000	1,473,860
P.A.D. District III															
Alabama	6	6	0	144,400	0	152,000	0	32,250	0	0	0	23,200	0	13,000	37,800
Arkansas	4	4	0	65,100	0	67,400	0	29,500	0	15,500	775	9,000	0	6,900	0
Louisiana	35	35	0	2,465,140	0	2,610,544	0	889,351	214,300	868,900	42,300	461,680	82,200	144,900	729,200
Mississippi	8	8	0	367,800	8,000	394,449	10,300	190,268	7,000	72,200	2,000	95,400	68,000	104,000	5,450
New Mexico	8	7	1	122,930	5,400	129,707	5,400	12,400	1,500	27,100	4,000	25,118	0	0	25,950
Texas	68	67	1	5,165,350	134,230	5,451,967	168,580	1,808,475	423,000	1,571,400	176,000	1,198,200	136,000	628,400	2,332,100
Total District III	129	127	2	8,330,720	147,630	8,806,067	184,280	2,962,244	645,800	2,555,100	225,075	1,812,598	286,200	897,200	3,130,500
P.A.D. District IV															
Colorado	3	3	0	63,200	0	64,500	0	32,500	4,500	6,900	100	19,000	0	0	13,200
Montana	6	6	0	147,450	8,000	153,850	8,000	37,100	10,200	51,600	13,250	44,100	4,900	38,000	73,850
Utah	8	8	0	167,000	0	176,400	0	42,200	8,500	54,000	10,100	26,000	800	0	24,100
Wyoming	14	14	0	231,580	0	251,040	0	86,960	13,000	71,300	16,640	37,050	0	31,700	18,100
Total District IV	31	31	0	609,230	8,000	645,790	8,000	198,760	36,200	183,800	40,090	126,150	5,700	69,700	129,250
P.A.D. District V															
Alaska	4	4	0	122,700	0	135,900	0	10,000	0	0	0	10,000	7,500	0	0
Arizona	1	1	0	6,000	0	6,300	0	0	0	0	0	0	0	0	0
California	45	44	1	2,475,490	138,700	2,671,546	155,700	1,188,400	451,200	547,000	31,600	575,830	328,700	165,750	997,000
Hawaii	1	1	0	48,000	0	50,000	0	28,000	0	22,000	0	0	0	0	0
Nevada	1	1	0	4,500	0	4,700	0	3,000	0	0	0	0	0	0	0
Oregon	1	1	0	15,000	0	16,000	0	16,000	0	0	0	0	0	0	0
Washington	8	8	0	384,900	730	411,000	1,000	161,700	38,000	91,500	28,000	111,000	46,000	21,000	171,300
Total District V	61	60	1	3,056,590	139,430	3,295,446	156,700	1,407,100	489,200	660,500	59,600	696,830	382,200	186,750	1,168,300
United States, Total	324	315	9	18,051,260	569,260	19,123,245	639,967	7,033,094	1,587,100	5,542,500	593,665	4,097,912	909,230	1,777,350	6,709,571
Projected January 1982	328	319	0	—	—	20,105,284	—	7,251,774	1,798,100	5,617,600	594,690	4,107,220	909,330	1,854,350	6,774,860
Projected January 1983	328	319	0	—	—	20,398,827	—	7,400,548	1,829,500	5,650,200	594,790	4,275,996	936,530	1,932,550	6,879,110
Puerto Rico	5	5	0	228,000	48,500	248,800	51,000	131,500	20,000	52,000	4,000	123,570	15,000	0	165,600
Hawaiian Foreign Trade Zone	1	1	0	67,900	0	71,500	0	30,000	0	0	0	13,000	1,200	0	13,000
Virgin Islands	1	1	0	670,000	30,000	705,000	31,000	190,000	0	0	0	125,000	0	295,000	0
Guam	1	1	0	43,900	0	47,160	0	14,000	0	0	0	0	0	0	0

(1) As of January 1, 1981.
(2) Barrels per stream day.

Source: U.S. Department of Energy, Energy Information Administration, Petroleum Refineries in the United States and U.S. Territories.

SECTION IX. IMPORTS

Table 1. The Share of Imports in U.S. Domestic Petroleum Demand

Table 2. Total U.S. Imports of Petroleum and Petroleum Production

Table 3. U.S. Crude Oil Imports by Area

Table 4. U.S. Imports of Crude Petroleum by Country of Origin

Table 5. U.S. Imports of Crude Oil by P.A.D. Districts

Table 6. U.S. Imports of Residual and Distillate Fuel by P.A.D. Districts

Table 7. U.S. Imports of Unfinished Oils and Refined Products by P.A.D.

Table 8. Total U.S. Petroleum Imports by Source

Table 9. U.S. Direct Petroleum Imports From Members of the Organization of Arab Petroleum Exporting Countries, September 1973-April 1974

BEST AVAILABLE COPY

THE SHARE OF IMPORTS IN U.S. DOMESTIC PETROLEUM DEMAND
(Thousands of barrels)

Year	U.S. IMPORTS Total	U.S. IMPORTS Daily Average	U.S. IMPORTS Annual % Change	DOMESTIC DEMAND FOR REFINED PRODUCTS Total	DOMESTIC DEMAND FOR REFINED PRODUCTS Daily Average	DOMESTIC DEMAND FOR REFINED PRODUCTS Annual % Change	IMPORTS as a % of Demand
1947	159,389	437	—	1,989,803	5,452	—	8.0
1948	188,144	514	+17.6	2,113,678	5,775	+ 5.9	8.9
1949	235,559	645	+25.5	2,118,250	5,803	+ 0.5	11.1
1950	310,261	850	+31.8	2,392,974	6,556	+13.0	13.0
1951	308,194	844	− 0.7	2,578,766	7,065	+ 7.8	11.9
1952	348,507	952	+12.8	2,668,134	7,290	+ 3.2	13.1
1953	377,499	1,034	+ 8.6	2,776,778	7,608	+ 4.4	13.6
1954	383,955	1,052	+ 1.7	2,833,896	7,764	+ 2.1	13.5
1955	455,564	1,248	+18.6	3,089,348	8,464	+ 9.0	14.7
1956	525,591	1,436	+15.1	3,214,651	8,783	+ 3.8	16.3
1957	574,589	1,574	+ 9.6	3,221,949	8,827	+ 0.5	17.8
1958	620,589	1,700	+ 8.0	3,327,993	9,118	+ 3.3	18.6
1959	649,583	1,780	+ 4.7	3,477,173	9,527	+ 4.5	18.7
1960	664,111	1,815	+ 2.0	3,585,820	9,797	+ 2.8	18.5
1961	699,666	1,917	+ 5.6	3,641,280	9,976	+ 1.8	19.2
1962	759,793	2,082	+ 8.6	3,796,029	10,400	+ 4.3	20.0
1963	774,713	2,123	+ 2.0	3,921,364	10,743	+ 3.3	19.8
1964	826,736	2,259	+ 6.4	4,034,236	11,023	+ 2.6	20.5
1965	900,772	2,468	+ 9.3	4,202,039	11,512	+ 4.4	21.4
1966	939,162	2,573	+ 4.3	4,410,796	12,084	+ 5.0	21.3
1967	925,991	2,537	− 1.4	4,584,526	12,560	+ 3.9	20.2
1968	1,039,369	2,840	+11.9	4,901,789	13,393	+ 6.6	21.2
1969	1,155,551	3,166	+11.5	5,159,930	14,137	+ 5.6	22.4
1970	1,248,062	3,419	+ 8.0	5,364,473	14,697	+ 4.0	23.3
1971	1,432,880	3,926	+14.8	5,552,560	15,212	+ 3.5	25.8
1972	1,735,314	4,741	+20.8	5,990,316	16,367	+ 7.6	29.0
1973	2,283,493	6,256	+32.0	6,317,303	17,308	+ 5.7	36.1
1974	2,230,947	6,112	− 2.3	6,078,239	16,653	− 3.8	36.7
1975(r)	2,210,335	6,056	− 0.9	5,957,515	16,322	− 2.0	37.1
1976	2,676,411	7,313	+20.8	6,390,750	17,461	+ 7.2	41.9
1977	3,207,106(1)	8,787	+20.2	6,727,468	18,431	+ 5.6	47.7
1978	2,993,847(1)	8,202	− 6.7	6,879,017	18,847	+ 2.3	43.5
1979(r)	3,062,053(1)	8,389	+ 2.3	6,757,077	18,513	− 1.8	45.3
1980(p)	2,484,163(1)	6,787	−19.1	6,224,308	17,006	− 8.2	39.9

(r) Revised
(p) Preliminary
(1) Excludes crude oil Imports into Strategic Petroleum Reserve 1977—7,540; 1978—58,798; 1979—24,434; 1980—16,065

Source: U.S. Energy Information Administration; Annual Petroleum Statements, 1980 December Statement

TOTAL U.S. IMPORTS OF PETROLEUM AND PETROLEUM PRODUCTION
(Thousands of barrels)

Year	IMPORTS						Total All Imports	Crude Oil and Condensate Production	Natural Gas Liquids Production	Total Production	Total Imports as a % of Production	Year
	Crude Oil	Residual Fuel Oil3/	Distillate Fuel Oil3/	Unfinished Oils	Plant Condensate	Refined Products						
1947	97,532	54,244	4,175	1/	2/	61,857	159,389	1,856,987	132,173	1,989,160	8.0%	1947
1948	129,093	53,269	2,546	1/	2/	59,051	188,144	2,020,185	146,721	2,168,906	8.7	1948
1949	153,686	75,175	1,825	1/	2/	81,873	235,559	1,841,940	157,086	1,999,026	11.8	1949
1950	177,714	120,036	2,602	1/	2/	132,547	310,261	1,973,574	181,961	2,155,535	14.4	1950
1951	179,073	119,116	1,767	1/	2/	129,121	308,194	2,247,711	204,754	2,452,465	12.6	1951
1952	209,591	128,479	2,742	1/	2/	138,916	348,507	2,289,836	223,515	2,513,351	13.9	1952
1953	236,455	131,533	3,379	1/	2/	141,044	377,499	2,357,082	238,579	2,595,661	14.5	1953
1954	239,479	129,124	3,195	1/	2/	144,476	383,955	2,314,988	252,133	2,567,121	15.0	1954
1955	285,421	152,035	4,413	1/	2/	170,143	455,564	2,484,428	281,371	2,765,799	16.5	1955
1956	341,833	162,869	5,159	1/	2/	183,758	525,591	2,617,283	292,727	2,910,010	18.1	1956
1957	373,255	173,229	8,566	1/	2/	201,334	574,589	2,616,901	294,990	2,911,891	19.7	1957
1958	348,007	182,306	14,892	1/	2/	272,582	620,589	2,448,987	294,749	2,743,736	22.6	1958
1959	352,344	222,571	17,658	23,072	2/	274,167	649,583	2,574,590	320,757	2,895,347	22.4	1959
1960	371,575	233,208	12,771	16,478	2/	276,058	664,111	2,574,933	340,157	2,915,090	22.8	1960
1961	381,548	243,268	17,377	25,348	2/	292,770	699,666	2,621,758	361,689	2,983,447	23.5	1961
1962	411,039	264,314	11,831	32,516	2/	316,238	759,793	2,676,189	372,705	3,048,894	24.9	1962
1963	412,660	272,753	9,110	31,702	2/	330,351	774,713	2,752,723	400,886	3,153,609	24.6	1963
1964	438,643	295,771	11,785	32,587	2/	355,506	826,736	2,786,822	422,471	3,209,293	25.8	1964
1965	452,040	345,187	13,002	33,706	2/	415,026	900,772	2,848,514	441,556	3,290,070	27.4	1965
1966	447,120	376,795	13,845	35,236	2/	456,806	939,162	3,027,763	468,635	3,496,398	26.9	1966
1967	411,649	395,939	18,492	35,225	2/	479,117	925,991	3,215,742	514,456	3,730,198	24.8	1967
1968	472,323	409,928	48,148	29,350	2/	537,696	1,039,369	3,329,042	550,311	3,879,353	26.8	1968
1969	514,114	461,611	50,883	38,766	2/	602,671	1,155,551	3,371,751	580,241	3,951,992	29.2	1969
1970	483,293	557,845	53,826	39,261	2,258	723,250	1,248,062	3,517,450	605,916	4,123,366	30.3	1970
1971	613,417	577,770	55,783	45,193	13,321	760,949	1,432,880	3,453,914	617,815	4,071,729	35.2	1971
1972	811,135	637,401	66,449	45,705	31,428	847,046	1,735,314	3,455,368	638,216	4,093,584	42.4	1972
1973	1,183,996	676,225	143,149	50,161	39,344	1,009,992	2,283,493	3,360,903	634,423	3,995,326	57.2	1973
1974r/	1,269,155	579,157	105,579	44,228	32,364	885,200	2,230,947	3,202,585	616,098	3,818,683	58.4	1974r/

r/ Revised

1/ Separate data not available prior to 1959

2/ Separate data not available prior to 1970

3/ Residual and Distillate Fuel Oil included in Refined Products

Source: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids, Annual and December Issues

July 1976

TOTAL U.S. PETROLEUM IMPORTS AND PETROLEUM PRODUCTION

	IMPORTS							PRODUCTION			
Year	Crude Oil	Residual Fuel Oil(3)	Distillate Fuel Oil(3)	Unfinished Oils	Plant Condensate	Refined Products	Total	Crude Oil and Condensate	Natural Gas Liquids	Total	Year
1975	1,498,181	446,528	56,678	12,985	26,972	672,197	2,210,335	3,056,779	595,958	3,652,737	1975
1976	1,935,012	517,325	53,520	11,735	24,408	705,256	2,676,411	2,976,180	587,045	3,563,225	1976
1977	2,414,327(4)	496,065	91,318	11,239	15,003	774,077	3,214,646	3,009,265	590,455	3,599,720	1977
1978	2,319,826(4)	494,640	63,288	9,913	6,017	716,889	3,052,645	3,178,216	572,086	3,750,302	1978
1979(r)	2,379,541(4)	420,144	71,754	21,372	4,749	682,090	3,087,752	3,121,310	578,023	3,699,333	1979(r)
1980(p)	1,910,681(4)	336,579	50,780	19,659	3,781	566,108	2,500,229	3,146,519	572,274	3,718,793	1980(p)

(r) Revised

(p) Preliminary

(3) Residual and distillate fuel oil included in refined products

(4) Includes SPR crude oil imports—1977-7,540; 1978-58,798; 1979-24,434; 1980-16,065

SOURCE: U.S. Energy Information Administration, Annual Petroleum Statement. 1980 December Statement

U.S. CRUDE OIL IMPORTS BY AREA
(Thousands of barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total	Western Hemisphere as a % of Total	Africa as a % of Total	Middle East as a % of Total	All Others as a % of Total	Year
1947	97,146	—	386	—	97,532	99.6%	—	0.4%	—	1947
1948	105,912	—	23,181	—	129,093	82.0	—	18.0	—	1948
1949	116,736	—	36,950	—	153,686	76.0	—	24.0	—	1949
1950	136,096	—	41,618	—	177,714	76.6	—	23.4	—	1950
1951	138,074	—	37,501	3,498	179,073	77.1	—	20.9	2.0%	1951
1952	147,771	—	56,556	5,264	209,591	70.5	—	27.0	2.5	1952
1953	141,552	—	80,930	13,969	236,451	59.9	—	34.2	5.9	1953
1954	148,010	—	77,764	13,705	239,479	61.8	—	32.5	5.7	1954
1955	173,166	—	100,344	11,941	285,451	60.7	—	35.1	4.2	1955
1956	225,007	—	103,517	13,309	341,833	65.8	—	30.3	3.9	1956
1957	261,736	—	87,798	23,719	373,253	70.1	—	23.5	6.4	1957
1958	199,256	—	123,091	25,732	348,079	57.2	—	35.4	7.4	1958
1959	212,707	—	115,875	23,762	352,344	60.4	—	32.9	6.7	1959
1960	230,229	1,451	113,175	26,720	371,575	62.0	0.4%	30.4	7.2	1960
1961	237,995	1,887	118,997	22,669	381,548	62.4	0.5	31.2	5.9	1961
1962	267,680	9,808	109,071	24,480	411,039	65.1	2.4	26.5	6.0	1962
1963	278,933	9,173	103,214	21,340	412,660	67.6	2.2	25.0	5.2	1963
1964	289,012	17,743	108,841	23,047	438,643	65.9	4.0	24.8	5.3	1964
1965	283,377	24,585	121,908	22,170	452,040	62.7	5.4	27.0	4.9	1965
1966	289,800	31,543	107,579	18,198	447,120	64.8	7.0	24.1	4.1	1966
1967	301,002	20,151	67,977	22,519	411,649	73.1	4.9	16.5	5.5	1967
1968	315,977	57,461	72,330	26,555	472,323	66.9	12.2	15.3	5.6	1968
1969	337,847	82,380	61,616	32,271	514,114	65.7	16.0	12.0	6.3	1969
1970	351,366	44,365	61,892	25,670	483,293	72.7	9.2	12.8	5.3	1970
1971	378,102	68,361	124,155	42,779	613,397	61.6	11.1	20.3	7.0	1971
1972	421,799	172,105	155,982	61,249	811,135	52.0	21.2	19.2	7.6	1972
1973	532,238	285,481	292,988	73,289	1,183,996	45.0	24.1	24.7	6.2	1973
1974	446,534	356,121	362,186	104,314	1,269,155	35.2	28.1	28.5	8.2	1974

Source: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids, Annual and December issues.

July 1976

U.S. CRUDE OIL IMPORTS BY AREA
(Thousands of barrels)

Year	Western Hemisphere	Africa	Middle East	All Others	Total	Western Hemisphere as a % of Total	Africa as a % of Total	Middle East as a % of Total	All Others as a % of Total	Year
1975	453,772	488,515	409,496	146,398	1,498,181	30.3	32.6	27.3	9.8	1975
1976	316,202	716,661	681,189	220,965	1,935,012	16.3	37.0	35.2	11.4	1976
1977	328,468	912,631	910,744	262,484	2,414,327	13.6	37.8	37.7	10.9	1977
1978	345,624	830,773	832,305	311,124	2,319,826	14.9	35.8	35.9	13.4	1978
1979	435,817	911,352	765,249	267,123	2,379,541	18.3	38.0	32.2	11.5	1979
1980(p)	376,841	724,511	558,408	250,920	1,910,680	19.7	38.0	29.2	13.1	1980(p)

(p) Preliminary

SOURCE: U.S. Energy Information Administration, Annual Petroleum Statement. 1980 December Statement.

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of barrels)

AREA AND COUNTRY	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Argentina	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bolivia	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—	268	545	—
Canada	—	—	—	—	463	1.116	2.527	2.565	16.810	42.739	55.131	30.426	33.730	41.349
Chile	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	10.944	8.542	11.678	16.159	16.312	16.209	15.860	12.415	8.125	9.009	8.366	9.411	12.437	14.799
Curacao and Aruba	5.125	4.707	613	611	—	—	—	371	487	—	—	—	—	—
Ecuador	—	—	—	—	—	—	90	300	474	368	933	—	—	—
Mexico	5.578	3.601	4.797	12.307	13.862	8.483	2.897	3.018	5.510	4.666	2.441	672	112	925
Peru	—	—	—	—	—	—	—	608	855	609	—	192	—	—
Trinidad	—	—	—	—	—	—	—	356	121	566	1.111	120	—	269
Venezuela	75.499	89.062	99.648	107.019	107.437	121.963	120.178	128.377	140.754	157.050	193.756	158.167	165.883	172.887
Total Western Hemisphere	**97,146**	**105,912**	**116,736**	**136,096**	**138,074**	**147,771**	**141,552**	**148,010**	**173,136**	**225,007**	**261,738**	**199,256**	**212,707**	**230,229**
Algeria	—	—	—	—	—	—	—	—	—	—	—	—	—	284
Angola	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—	—	1.167
Gabon	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tunisia	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total Africa	—	—	—	—	—	—	—	—	—	—	—	—	—	1.451
Abu Dhabi	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	4.507	1.107	111	—	—	—	204	3.202	7.257	6.624	5.348	8.961	13.056
Iraq	—	766	341	—	—	705	2.287	2.188	6.988	9.650	4.477	8.972	7.667	6.363
Kuwait	111	3.442	23.445	26.741	21.601	26.444	38.611	41.046	48.954	50.953	51.389	58.098	59.169	47.512
Neutral Zone	—	—	—	—	—	—	—	2.983	6.639	3.072	2.050	12.007	15.091	16.363
Qatar	—	—	—	116	—	—	3.368	3.524	5.511	4.915	2.247	1.513	231	1.649
Saudi Arabia	275	14.466	12.057	14.650	15.900	29.407	36.668	27.819	29.050	27.670	21.011	27.081	24.756	28.232
Total Middle East	386	23.181	36.950	41.618	37.501	56.556	80.934	77.764	100.344	103.517	87.798	123.019	115.875	113.175
Borneo	—	—	—	—	3.498	1.624	—	—	—	—	—	4.679	3.739	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia (Sumatra)	—	—	—	—	—	3.640	13.969	13.705	11.941	13.309	23.719	21.053	20.023	26.720
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total Far East	—	—	—	—	3.498	5.264	13.969	13.705	11.941	13.309	23.719	25.732	23.762	26.720
U.S.S.R.		—	—	—	—	—	—	—	—	—	—	—	—	—
Total Eastern Hemisphere	**386**	**23,181**	**36,950**	**41,618**	**40,999**	**61,820**	**94,903**	**91,469**	**112,285**	**116,826**	**111,517**	**148,751**	**139,637**	**141,346**
ANNUAL TOTAL	**97,532**	**129,093**	**153,686**	**177,714**	**179,073**	**209,591**	**236,455**	**239,479**	**285,421**	**341,833**	**373,255**	**348,007**	**352,344**	**371,575**
% Western Hemisphere	99.6	82.0	76.0	77.0	77.1	70.5	59.9	61.8	60.7	65.8	70.1	57.2	60.4	62.0
% Eastern Hemisphere	0.4	18.0	24.0	23.0	23.0	29.5	40.1	38.2	39.3	34.2	29.9	42.8	39.6	38.0

Source: U.S. Bureau of Mines. Crude Petroleum, Petroleum Products and Natural Gas Liquids. Annual and December Issues.

July 1976

Section IX
Table 4

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of barrels)

AREA AND COUNTRY	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
Argentina	—	—	—	—	—	—	—	—	—	—	—	407	—	—
Bolivia	—	—	—	—	—	1,237	7,016	6,866	5,596	534	798	—	891	2,467
Brazil	1,773	1,277	2,052	—	—	—	—	—	—	—	—	—	—	—
Canada	66,614	85,152	90,394	101,607	107,762	126,712	150,409	169,418	203,298	245,258	263,294	312,440	365,370	288,763
Chile	—	—	—	—	—	—	633	1,975	1,464	—	261	—	—	—
Colombia	10,050	8,614	8,293	9,606	15,211	14,424	11,855	11,981	15,551	7,313	3,175	1,695	778	—
Curacao and Aruba	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	5,331	17,229	15,225
Mexico	3,655	3,644	3,657	3,577	2,552	—	—	—	—	—	—	—	489	597
Peru	—	—	—	—	—	—	—	—	216	—	—	—	—	—
Trinidad	152	—	—	—	—	—	—	—	—	265	—	8,626	21,739	23,045
Venezuela	155,751	168,993	174,537	174,012	157,852	147,427	131,089	125,737	111,722	97,996	110,574	93,300	125,742	116,437
Total Western Hemisphere	**237,995**	**267,680**	**276,933**	**289,167**	**283,377**	**289,800**	**301,002**	**315,977**	**337,847**	**351,366**	**378,102**	**421,799**	**532,238**	**446,534**
Algeria	—	1,543	380	2,249	3,256	1,400	1,447	1,944	358	2,093	4,685	31,753	43,619	65,764
Angola	—	—	—	—	—	—	—	—	424	—	1,301	5,785	17,753	17,536
Egypt	1,887	1,543	1,772	1,077	881	852	1,318	10,795	14,778	7,626	6,924	3,091	5,296	3,227
Gabon	—	—	—	—	—	—	661	—	—	—	—	—	—	8,552
Libya	—	6,722	7,021	14,417	15,152	25,177	15,293	41,591	48,862	17,156	19,426	40,069	48,585	1,495
Nigeria	—	—	—	—	5,296	4,114	1,432	3,131	17,958	17,490	34,826	88,887	163,687	254,358
Tunisia	—	—	—	—	—	—	—	—	—	—	1,199	2,520	6,541	4,519
Total Africa	1,887	9,808	9,173	17,743	24,585	31,543	20,151	57,461	82,380	44,365	68,361	172,105	285,481	356,121[2]
Abu Dhabi/ United Arab Emirates[5]	—	—	—	1,112	5,035	4,781	1,936	5,605	5,051	23,047	29,026	26,873	25,764	25,158
Iran	21,970	17,735	22,717	24,143	28,633	30,833	23,781	21,154	15,306	12,184	38,576	49,700	78,990	168,956
Iraq	7,362	856	321	—	5,695	9,447	1,716	—	—	—	3,932	1,315	1,529	—
Kuwait	44,311	40,749	29,680	23,263	20,208	9,543	6,859	15,863	12,539	12,123	10,650	13,205	15,208	1,820
Neutral Zone	19,278	15,837	15,855	17,565	9,756	7,028	4,006	10,749	15,864	—	—	—	—	—
Qatar	3,575	9,535	5,835	7,294	4,346	176	—	—	191	—	—	1,263	2,663	6,189
Saudi Arabia	22,501	24,359	28,806	35,464	48,235	45,771	29,679	18,959	12,665	14,538	41,971	63,626	168,525	159,827
Total Middle East	118,997	109,071	103,214	108,841	121,908	107,579	67,977	72,330	61,616	61,892	124,155	155,982	292,988[1]	362,186[3]
Australia	—	—	—	—	—	—	—	—	—	—	2,567	327	—	—
Indonesia (Sumatra)	22,669	24,480	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	40,232	59,633	73,055	103,482
Malaysia	—	—	—	—	—	—	—	—	—	—	—	966	234	510
Total Far East	22,669	24,480	21,340	23,047	22,170	18,198	22,519	26,555	32,271	25,670	42,799	60,926	73,289	103,992
U.S.S.R.	—	—	—	—	—	—	—	—	—	—	—	323	—	—
Total Eastern Hemisphere	**143,553**	**143,359**	**133,727**	**149,631**	**168,663**	**157,320**	**110,647**	**156,346**	**176,267**	**131,927**	**235,315**	**389,336**	**651,758**	**822,621[4]**
ANNUAL TOTAL	**381,548**	**411,039**	**412,660**	**438,643**	**452,040**	**447,120**	**411,649**	**472,323**	**514,114**	**483,293**	**613,417**	**811,135**	**1,183,996**	**1,269,155**
% Western Hemisphere	62.4	65.1	67.6	65.9	62.7	64.8	73.1	66.9	65.7	72.7	61.6	52.0	45.0	35.2
% Eastern Hemisphere	37.6	34.9	32.4	34.1	37.3	35.2	26.9	33.1	34.3	27.3	38.4	48.0	55.0	64.8

1/ Includes Israel 1973 — 309

2/ Includes Congo 1974 — 670

3/ Includes Oman 1974 — 236

4/ Includes Netherlands 1974 — 322

5/ Figures from 1947-1971 reflect Abu Dhabi only. Beginning 1972 Abu Dhabi, Dubai and Sharjah formed the United Arab Emirates

Source: U.S. Bureau of Mines, Crude Petroleum, Petroleum Products and Natural Gas Liquids, Annual and December Issues

July 1976

U.S. IMPORTS OF CRUDE OIL BY COUNTRY OF ORIGIN
(Thousands of Barrels)

AREA AND COUNTRY	1975	1976	1977	1978	1979	1980[p]
Bolivia	1,940	1,849	1,271	308	328	301
Canada	219,175	135,690	101,778	90,490	99,081	73,004
Colombia	—	2,041	—	—	—	—
Ecuador	20,679	18,671	20,229	13,910	11,010	5,765
Mexico	25,660	31,670	64,711	115,426	158,908	184,326
Trinidad	42,097	38,142	48,841	51,974	44,950	42,007
Venezuela	144,221	88,139	91,331	66,125	106,794	56,491
Total Western Hemisphere	**453,772**	**316,202**	**328,468[1]**	**345,624[1]**	**435,817[1]**	**376,841[1]**
United Kingdom	125	4,923	35,583	61,555	71,923	63,614
Netherlands	1,500	—	1,509	846	2,685	426
Norway	4,552	12,881	17,628	37,815	27,523	51,718
Total Europe	6,177	17,804	54,720	100,216	102,131	116,057[6]
Algeria	96,459	149,190	198,468	231,253	222,042	165,371
Angola	26,051	2,426	6,150	2,290	14,088	13,091
Congo	—	3,142	2,440	5,454	909	2,273
Egypt	1,687	6,311	13,034	7,395	20,205	11,250
Gabon	9,811	9,685	12,632	13,841	15,328	9,065
Libya	81,403	162,457	256,984	232,897	234,173	199,782
Nigeria	272,265	370,962	412,498	332,035	390,116	304,090
Tunisia	839	5,400	10,425	4,460	6,429	2,328
Zaire	—	7,088	—	263	1,379	4,691
Total Africa	488,515	716,661	912,631	830,773[2]	911,352[2]	724,511[2]
United Arab Emirates	42,585	93,105	121,640	140,663	102,709	65,553
Iran	101,575	109,073	193,415	202,357	108,269	2,625
Iraq	707	9,542	26,894	22,673	32,052	10,119
Israel	—	2,368	—	—	—	—
Kuwait	1,444	451	15,434	1,718	1,898	7,182
Oman	492	10,943	27,140	22,240	13,466	7,747
Qatar	6,657	8,631	24,281	23,224	11,450	7,920
Saudi Arabia	256,036	447,071	501,072	416,910	491,514	456,475
Total Middle East	409,496	681,184	910,744[3]	832,305[3]	765,249[3]	558,408[3]
Indonesia	138,270	196,599	184,984	194,620	138,528	112,302
Malaysia	1,951	5,914	20,257	13,677	19,954	22,213
Total Far East	140,221	202,513	207,089[4]	210,632[4]	159,933[4]	134,863[4]
U.S.S.R.	—	648	675	276	—	—
Total Eastern Hemisphere	**1,044,409**	**1,618,810**	**2,085,859**	**1,974,202**	**1,938,715[5]**	**1,533,839**
ANNUAL TOTAL	**1,498,181**	**1,935,012**	**2,414,327**	**2,319,826**	**2,379,544**	**1,910,680**
% Western Hemisphere	30.3	16.3	13.6	14.9	18.3	19.7
% Eastern Hemisphere	69.7	83.7	86.4	85.1	81.7	80.3

---

[p] Preliminary

[1] Total Western Hemisphere includes 307 barrels from Chile in 1977, and 584 in 1978. Also 6,807 barrels from Peru in 1978, 14,746 in 1979, and 13,795 in 1980. Also 370 barrels from Brazil and 782 from Guatemala in 1980.

[2] Total Africa includes 885 barrels from Cameroon in 1978, 5,771 in 1979, and 11,967 in 1980. Also 204 from Ghana in 1979, and 300 in 1980. Also 708 barrels from Liberia in 1979, and 303 in 1980.

[3] Total Middle East include 868 barrels in 1977, 2,530 in 1978, 3,891 in 1979, and 787 in 1980 from Syria.

[4] Total Far East includes 1,848 barrels in 1977, 2,335 in 1978, 2,451 in 1979, and 348 in 1980 from Brunei.

[5] Annual Total include 4,854 barrels from The Peoples Republic of China. 111 barrels from Romania and 74 barrels from Yugoslavia for 1979.

[6] Total Europe includes 299 barrels from Spain.

Source: Energy Information Administration, Annual Petroleum Statements. 1980 December Statement.

September 1981

U.S. IMPORTS OF CRUDE OIL BY P.A.D. DISTRICTS
(Thousands of barrels)

Year	P.A.D.D. I	P.A.D.D. II	P.A.D.D. III	P.A.D.D. IV	P.A.D.D. V	Total Imported Crude Oil	P.A.D.D. I as a % of Total	P.A.D.D. V as a % of Total
1952[1]	192,349	1,116	4,423	—	11,703	209,591	91.8	5.6
1953	202,611	2,562	2,871	—	28,411	236,455	85.7	12.0
1954	213,413	2,772	4,553	—	18,741	239,479	89.1	7.8
1955	232,850	7,425	11,098	—	34,048	285,421	81.6	11.9
1956	244,453	19,904	11,917	70	65,489	341,833	71.5	19.2
1957	247,395	22,296	8,729	86	94,749	373,255	66.3	25.4
1958	238,769	25,328	16,242	13	67,655	348,007	68.6	19.4
1959	235,259	21,279	10,184	15	85,607	352,344	66.8	24.3
1960	244,196	23,265	2,939	20	101,155	371,575	65.7	27.2
1961	236,905	30,971	2,354	30	111,288	381,548	62.1	29.2
1962	244,235	34,646	2,489	682	128,987	411,039	59.4	31.4
1963	248,199	34,666	1,698	3,528	124,569	412,660	60.1	30.2
1964	252,527	37,801	1,835	4,409	142,071	438,643	57.6	32.4
1965	258,361	41,264	—	4,807	147,608	452,040	57.2	32.7
1966	259,499	48,114	449	4,954	134,104	447,120	58.0	30.0
1967	216,920	56,408	672	6,648	131,001	411,649	52.7	31.8
1968	263,866	78,365	741	10,058	119,393	472,323	55.9	25.3
1969	269,007	88,434	—	12,714	143,959	514,114	52.3	28.0
1970	211,403	115,613	—	17,573	138,704	483,293	43.7	28.7
1971	252,088	137,064	20,449	16,869	186,947	613,417	41.1	30.5
1972	354,549	171,338	28,331	14,126	242,791	811,135	43.7	29.9
1973	466,074	260,368	145,654	16,132	295,768	1,183,996	39.4	25.0
1974	428,608	250,771	289,999	16,579	283,198	1,269,155	33.8	22.3
1975	451,549	282,658	437,049	16,090	310,835	1,498,181	30.1	20.7
1976	517,840	366,107	651,381	19,878	379,806	1,935,012	26.8	19.6
1977	553,955	516,775	927,596	15,957	400,044	2,414,327	22.9	16.6
1978	542,856	494,132	1,045,691	18,132	219,015	2,319,826	23.4	9.4
1979	522,580	556,861	1,083,749	23,656	192,695	2,379,541	22.0	8.1
1980(p)	447,268	416,666	880,196	12,403	154,147	1,910,680	23.4	8.1

(p) Preliminary

[1] Figures not available by P.A.D.D. prior to 1952

SOURCE: U.S. Bureau of Mines, 1952-1972 Minerals Yearbook
U.S. Energy Information Administration 1973-1980 Petroleum Statement, Annual and December issues

U.S. IMPORTS OF RESIDUAL AND DISTILLATE FUEL BY P.A.D. DISTRICTS

(Thousands of barrels)

Year[2]	PAD I		PAD II		PAD III		PAD IV		PAD V		TOTALS		Total[3] Imports Refined Products	AS A % TOTAL REFINED IMPORTS		Year[2]
	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil		Residual Fuel Oil	Distillate Fuel Oil	
1950	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	120.036	2.602	132.547	90.6	2.0	1950
1951	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	119.166	1.767	129.121	92.2	1.4	1951
1952	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	128.479	2.742	138.916	92.5	2.0	1952
1953	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	131.533	3.379	141.044	93.3	2.4	1953
1954	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	129.124	3.195	144.476	89.4	2.2	1954
1955	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	152.035	4.413	170.143	89.4	2.6	1955
1956	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	162.869	5.159	183.758	88.6	2.8	1956
1957	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	173.229	8.566	201.334	86.0	4.3	1957
1958	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	182.306	14.892	272.582	66.9	5.5	1958
1959	219.341	17.283	230	13	2.981	360	1	2	18	0	222.571	17.658	297.239	74.9	5.9	1959
1960	211.788	11.365	59	12	14.416	1.298	0	96	6.945	0	233.208	12.771	292.536	79.7	4.4	1960
1961	214.453	15.533	284	24	12.320	1.654	1	142	16.210	24	243.268	17.377	318.118	76.5	5.5	1961
1962	237.565	9.811	610	31	11.775	1.892	47	92	14.317	5	264.314	11.831	348.754	75.8	3.4	1962
1963	252.785	7.787	800	63	12.327	1.250	26	1	6.815	9	272.753	9.110	362.053	75.3	2.5	1963
1964	274.306	10.559	804	64	11.204	1.119	45	0	9.412	43	295.771	11.785	388.093	76.2	3.0	1964
1965	318.634	11.041	1.188	17	14.598	1.811	43	0	10.724	133	345.187	13.002	448.732	76.9	2.9	1965
1966	357.907	12.548	860	107	11.708	967	55	0	6.265	223	376.795	13.845	492.042	76.6	2.8	1966
1967	383.260	16.851	587	224	7.475	891	60	0	4.557	526	395.939	18.492	514.342	77.0	3.6	1967
1968	394.528	45.502	573	360	8.271	1.290	54	0	6.502	996	409.928	48.148	567.046	72.3	8.5	1968
1969	440.983	47.720	627	1.264	12.167	937	78	0	7.756	962	461.611	50.883	641.437	72.0	7.9	1969
1970	536.968	49.333	4.207	2.223	11.029	1.192	52	0	5.589	1.078	557.845	53.826	764.769	72.9	7.0	1970
1971	558.771	53.373	3.953	258	6.553	1.079	41	0	8.382	1.073	577.700	55.783	819.463	70.5	6.8	1971
1972	616.990	64.302	5.458	473	6.212	1.191	0	0	8.741	483	637.401	66.449	924.179	69.0	7.2	1972
1973	639.611	125.210	6.068	1.353	10.471	12.406	0	104	20.075	4.076	676.225	143.149	1.099.497	61.5	13.0	1973
1974[r]	538.573	95.018	7.919	621	11.806	6.766	—	32	20.859	3.142	579.157	105.579	885.200	65.4	11.9	1974[r]

---

[r] Revised

[1] Figures not available by P.A.D. prior to 1959

[2] Beginning in 1959, figures include receipts from Puerto Rico and Virgin Islands

[3] Figures include unfinished oils and plant condensate

Source: U.S. Bureau of Mines, 1950-1972, Minerals Yearbook
1973-1974, Crude Petroleum, Petroleum Products, and Natural Gas Liquids, Annual and December issues

Section IX
Table 6

U.S. IMPORTS OF RESIDUAL AND DISTILLATE FUEL BY P.A.D. DISTRICTS
(Thousands of barrels)

	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		TOTALS		Total[(3)] Imports	AS A % OF TOTAL REFINED IMPORTS		
Year[(2)]	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Residual Fuel Oil	Distillate Fuel Oil	Refined Products	Residual Fuel Oil	Distillate Fuel Oil	Year[(2)]
1975	416,105	54,300	14,015	223	3,957	1,441	—	1	12,451	713	446,528	56,678	712,154	62.7	8.0	1975
1976	495,980	49,225	11,720	97	1,728	680	—	—	7,897	3,518	517,325	53,520	705,256	73.4	7.6	1976
1977	467,124	88,171	11,754	55	818	413	—	—	16,369	2,673	496,065	91,318	773,899	64.1	11.8	1977
1978	468,937	59,023	17,101	306	939	210	—	—	7,663	3,749	494,640	63,288	716,868	69.0	8.8	1978
1979	392,861	65,356	14,267	70	2,044	1,568	—		10,972	4,756	420,144	71,754	682,090	61.6	10.5	1979
1980[(p)]	310,994	47,443	10,439	—	6,485	1,268	—		8,661	2,069	336,579	50,780	566,108	59.5	9.0	1980[(p)]

(p) Preliminary

(2) Figures include receipts from Puerto Rico and Virgin Islands

(3) Figures exclude unfinished oils and plant condensate

Source: U.S. Energy Information Administration, Annual Petroleum Statements. 1980 December Statement.

U.S. IMPORTS OF UNFINISHED OILS AND REFINED PRODUCTS BY P.A.D. DISTRICTS(2)
(Thousands of barrels)

	P.A.D.D. I		P.A.D.D. II		P.A.D.D. III		P.A.D.D. IV		P.A.D.D. V		TOTALS			
Year	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	Unfinished Oils	Refined Products	P.A.D.D. I as a % of Total	Year
1959(1)	16,628	264,347	587	606	2,148	4,861	—	31	3,709	4,322	23,072	274,167	94.5	1959(1)
1960	9,534	248,388	520	1,019	994	16,788	—	121	5,430	9,742	15,478	276,058	88.2	1960
1961	18,045	256,484	1,184	1,324	145	15,258	—	180	5,974	19,524	25,348	292,770	86.3	1961
1962	22,297	279,475	360	1,746	1,616	15,101	—	154	8,243	19,672	32,516	316,238	86.5	1962
1963	21,779	299,530	476	2,193	2,102	14,952	—	39	7,345	13,637	31,702	330,351	88.7	1963
1964	21,151	321,994	478	3,552	1,011	13,117	—	159	9,947	16,684	32,587	355,506	88.4	1964
1965	23,260	369,760	213	5,739	377	18,073	—	727	9,856	20,727	33,706	415,026	87.6	1965
1966	26,743	410,435	43	7,276	15	13,826	—	971	8,435	24,298	35,236	456,606	88.9	1966
1967	23,222	434,265	20	7,171	276	9,873	—	879	11,707	26,929	35,225	479,117	89.0	1967
1968	21,987	489,628	1	7,573	109	10,618	—	2,253	7,253	27,624	29,350	537,696	90.2	1968
1969	28,975	543,947	51	8,245	1,034	15,087	—	2,979	8,706	32,413	38,766	602,671	89.3	1969
1970	30,221	651,123(3)	—	20,022(3)	913	21,191	—	3,192(3)	8,127	29,980(3)	39,261	725,508(3)	89.1	1970
1971	30,651	685,309(3)	—	22,918(3)	2,217	17,425	—	7,786(3)	12,325	43,832(3)	45,193	777,270(3)	87.4	1971
1972	30,715	761,491(3)	—	39,798(3)	1,548	16,474	—	16,623(3)	13,442	44,088(3)	45,705	878,474(3)	85.7	1972
1973	26,216	874,707(3)	739	53,985(3)	10,681	45,714	—	16,285(3)	12,525	58,645(3)	50,161	1,049,336	81.9	1973
1974	14,084	757,416(3)	1,155	49,860(3)	19,208	43,356(3)	—	14,143(3)	9,781	52,789(3)	44,228	917,564(3)	80.2	1974
1975	6,038	578,739(3)	392	49,345(3)	4,170	15,989(3)	—	12,327(3)	2,385	42,769(3)	12,985	699,169(3)	82.1	1975
1976	7,721	619,068	16	34,334	3,750	13,382	—	5,888(3)	248	32,584	11,735	705,256	87.4	1976
1977	9,333	665,984	15	43,912	905	17,422	—	5,922	986	40,659	11,239	773,899	86.0	1977
1978	9,022	614,132	15	45,676	226	8,427	—	4,635	650	43,998	9,913	716,868	85.7	1978
1979	7,945	547,023	338	68,663	7,687	21,135	—	4,737	5,402	40,532	21,372	682,090	78.9	1979
1980(p)	11,162	438,272	217	65,319	5,855	25,286	—	4,939	2,425	32,292	19,659	566,108	76.7	1980(p)

(p) Preliminary

(1) Figures not available by P.A.D. district prior to 1959

(2) Figures include receipts from Puerto Rico and Virgin Islands

(3) Includes plant condensate

Source: U.S. Energy Information Administration, 1959-1972, Minerals Yearbook
1973-1979, Annual Petroleum Statements.
1980 December Statement

TOTAL U.S. PETROLEUM IMPORTS BY SOURCE
(Thousands of barrels per day)

	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
WESTERN HEMISPHERE													
Bahamas	–	–	–	–	–	–	–	–	–	–	–	1	–
Canada	158	87	98	122	204	250	265	303	322	384	450	507	608
Colombia	23	26	36	40	28	25	25	30	51	50	48	52	69
Mexico	38	32	35	17	39	49	48	46	48	45	49	45	41
Neth. West Indies	273	338	324	300	264	297	312	333	361	332	361	392	450
Puerto Rico	5	27	38	36	43	41	44	47	47	60	59	66	72
Trinidad	9	35	33	50	105	82	112	115	132	153	166	189	215
Venezuela	754	711	784	832	800	907	899	931	995	1,021	935	888	876
Virgin Islands	–	–	–	–	–	–	–	–	–	–	36	78	116
Other	5	11	8	2	10	9	21	10	11	21	41	46	34
Total	**1,265**	**1,267**	**1,356**	**1,399**	**1,493**	**1,660**	**1,726**	**1,815**	**1,967**	**2,066**	**2,145**	**2,264**	**2,481**
EASTERN HEMISPHERE													
Abu Dhabi	–	–	–	–	–	–	–	3	14	13	5	16	14
Indonesia	65	58	55	73	62	67	59	63	61	50	62	73	89
Italy	–	8	4	1	–	–	–	1	2	18	28	49	75
Iran	18	15	25	36	60	49	62	66	79	89	71	68	46
Kuwait	141	197	189	146	130	120	89	69	60	31	23	48	39
Libya	–	–	–	–	–	19	19	39	41	69	42	114	135
Nigeria	–	–	–	–	–	–	–	–	15	11	5	6	49
Saudi Arabia	60	74	68	79	69	73	86	109	144	135	86	60	42
Other	25	81	83	81	103	94	82	93	85	91	70	140	196
Total	**309**	**433**	**424**	**416**	**424**	**422**	**397**	**443**	**501**	**507**	**392**	**576**	**685**
TOTAL U.S. IMPORTS	**1,574**	**1,700**	**1,780**	**1,815**	**1.917**	**2,082**	**2,123**	**2,258**	**2,468**	**2,573**	**2,537**	**2,840**	**3,166**
% Western Hemisphere	80.4	74.5	76.2	77.1	77.9	79.7%	81.3	80.4	79.7	80.3	84.5	79.7	78.4
% Eastern Hemisphere	19.6	25.5	23.8	22.9	22.1	20.3%	18.7	19.6	20.3	19.7	15.5	20.3	21.6

1/ Less than 1,000 barrels

Source: U.S. Bureau of Mines

Section IX
Table 8

TOTAL U.S. PETROLEUM IMPORTS BY SOURCE
(Thousands of barrels per day)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
WESTERN HEMISPHERE										
Bahamas	32	150	174	174	164	152	116	167	160	147
Canada	767	857	1,108	1,325	1,070	846	599	516	467	538
Colombia	45	27	16	9	5	9	21	17	20	18
Ecuador	—	—	—	48	42	57	51	55	54	42
Mexico	42	27	21	16	8	71	87	179	318	439
Neth. Antilles	442	429	424	585	511	332	275	214	229	231
Puerto Rico	87	95	102	99	90	90	88	105	94	92
Trinidad	217	182	226	255	251	242	273	286	253	190
Venezuela	983	1,019	960	1,135	979	702	699	687	646	690
Virgin Islands	189	273	303	329	391	406	422	466	428	431
Other	52	18	61	28	21	44	44	16	33	50
Total	**2,856**	**3,077**	**3,395**	**4,003**	**3,532**	**2,951**	**2,675**	**2,708**	**2,701**	**2,868**
EASTERN HEMISPHERE										
Abu Dhabi/United Arab Emirates[1]	63	80	73	71	74	117	254	333	385	281
Algeria	8	15	92	135	190	282	432	552	649	636
Indonesia	70	111	164	213	300	389	539	533	573	420
Italy	83	79	83	125	74	27	37	51	38	30
Iran	38	112	142	223	469	280	298	530	555	304
Iraq	—	11	4	4	—	3	26	76	62	88
Kuwait	36	36	45	47	5	16	5	48	6	8
Libya	47	57	123	164	4	232	453	715	654	658
Malaysia	N.A.	N.A.	1	12	12	8	18	63	42	66
Netherlands	N.A.	N.A.	12	53	43	18	8	31	5	23
Nigeria	50	103	251	459	713	762	1,025	1,135	919	1,080
Norway	N.A.	N.A.	2	1	1	17	36	50	104	75
Oman	N.A.	N.A.	N.A.	N.A.	1	2	30	79	68	44
Qatar	—	—	3	7	17	18	24	67	64	31
Saudi Arabia	42	127	190	486	461	715	1,230	1,377	1,144	1,356
United Kingdom	N.A.	N.A.	10	9	8	11	31	124	180	202
Other	134	143	152	244	207	208	174	272	324	286
Total	**563**	**848**	**1,347**	**2,253**	**2,579**	**3,105**	**4,620**	**6,036**	**5,662**	**5,588**
TOTAL U.S. IMPORTS	**3,419**	**3,925**	**4,742**	**6,256**	**6,111**	**6,056**	**7,295**	**8,744**	**8,363**	**8,456**
% Western Hemisphere	83.5	78.4	71.6	64.0	57.8	48.7	36.7	31.0	32.3	33.9
% Eastern Hemisphere	16.5	21.6	28.4	36.0	42.2	51.3	63.3	69.0	67.7	66.1

N.A. Not available on individual country basis, included in "Other"

[1] Figures from 1957 to 1971 reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai, and Sharjah which formed the United Arab Emirates.

Source: U.S. Energy Information Administration, "Supply, Demand, and Stocks by P.A.D. Districts", Annual Reports.

U.S. DIRECT PETROLEUM IMPORTS FROM MEMBERS OF THE ORGANIZATION OF ARAB PETROLEUM EXPORTING COUNTRIES
SEPTEMBER 1973 - APRIL 1974
(Thousands of barrels)

OAPEC MEMBERS		SEPTEMBER 1973			OCTOBER 1973			NOVEMBER 1973			DECEMBER 1973		
		Crude	Products	Total	Crude	Products	Total	Crude	Products	Total	Crude	Products	Total
1. Algeria	Total	3,715	924	4,639	3,690	877	4,567	891	974	1,865	28	312	340
	bbl/day	124	31	155	119	28	147	30	32	62	1	10	11
2. Bahrain	Total	-	38	38	-	589	589	-	562	562	-	99	99
	bbl/day	-	1	1	-	19	19	-	18	18	-	3	3
3. Egypt	Total	-	-	-	-	-	-	-	-	-	-	-	-
	bbl/day	-	-	-	-	-	-	-	-	-	-	-	-
4. Iraq	Total	515	-	515	364	-	364	-	-	-	-	-	-
	bbl/day	17	-	17	12	-	12	-	-	-	-	-	-
5. Kuwait	Total	1,334	-	1,334	1,724	-	1,724	-	-	-	-	-	-
	bbl/day	44	-	44	56	-	56	-	-	-	-	-	-
6. Libya	Total	4,603	1,212	5,815	5,095	1,213	6,308	3,748	407	4,155	579	174	753
	bbl/day	153	40	194	164	39	203	125	14	139	19	6	25
7. Qatar	Total	1,222	-	1,222	543	-	543	273	-	273	74	-	74
	bbl/day	41	-	41	18	-	18	9	-	9	2	-	2
8. Saudi Arabia	Total	17,967	652	18,619	23,075	1,371	24,446	18,493	705	19,198	5,663	196	5,859
	bbl/day	599	22	621	744	44	788	616	24	640	183	6	189
9. Syria	Total	-	-	-	-	-	-	-	-	-	-	-	-
	bbl/day	-	-	-	-	-	-	-	-	-	-	-	-
10. United Arab Emirates	Total	2,652	-	2,652	1,920	3	1,923	3,197	-	3,197	-	1	1
	bbl/day	88	-	88	62	1/	62	107	-	107	-	1/	1/
OAPEC TOTALS	Total	32,008	2,826	34,834	36,411	4,053	40,464	26,602	2,638	29,240	6,344	782	7,126
	bbl/day	1,067	94	1,161	1,175	131	1,306	887	88	975	205	25	230
U.S. TOTALS	Total	104,117	88,227	192,344	115,906	89,706	205,611	103,570	104,100	207,670	89,633	98,096	187,729
	bbl/day	3,471	2,941	6,412	3,739	2,894	6,633	3,452	3,470	6,922	2,891	3,166	6,056
OAPEC AS A % OF U.S. TOTAL		30.7%	3.2%	18.1%	31.4%	4.5%	19.7%	25.7%	2.5%	14.1%	7.1%	0.8%	3.8%

OAPEC MEMBERS		JANUARY 1974			FEBRUARY 1974			MARCH 1974			APRIL 1974		
1. Algeria	Total	-	-	-	75	-	75	244	-	244	3,448	141	3,589
	bbl/day	-	-	-	3	-	3	8	-	8	115	5	120
2. Bahrain	Total	-	-	-	-	3	3	-	-	-	-	-	-
	bbl/day	-	-	-	-	1/	1/	-	-	-	-	-	-
3. Egypt	Total	-	-	-	-	-	-	-	-	-	543	-	543
	bbl/day	-	-	-	-	-	-	-	-	-	18	-	18
4. Iraq	Total	-	-	-	-	-	-	-	-	-	-	-	-
	bbl/day	-	-	-	-	-	-	-	-	-	-	-	-
5. Kuwait	Total	-	-	-	-	-	-	-	-	-	62	-	62
	bbl/day	-	-	-	-	-	-	-	-	-	2	-	2
6. Libya	Total	29	-	29	468	-	468	142	-	142	244	-	244
	bbl/day	1	-	1	17	-	17	5	-	5	8	-	8
7. Qatar	Total	-	-	-	-	-	-	-	-	-	-	-	-
	bbl/day	-	-	-	-	-	-	-	-	-	-	-	-
8. Saudi Arabia	Total	593	66	659	1,073	30	1,103	2,364	289	2,653	1,234	736	1,970
	bbl/day	19	2	21	38	1	39	76	9	85	41	25	66
9. Syria	Total	-	-	-	-	-	-	-	-	-	-	-	-
	bbl/day	-	-	-	-	-	-	-	-	-	-	-	-
10. United Arab Emirates	Total	304	-	304	-	-	-	-	-	-	405	-	405
	bbl/day	10	-	10	-	-	-	-	-	-	14	-	14
OAPEC TOTALS	Total	926	66	992	1,616	33	1,649	2,750	289	3,039	5,936	877	6,813
	bbl/day	30	2	32	58	1	59	89	9	98	198	29	227
U.S. TOTALS	Total	73,839	92,158	165,997	62,940	83,246	146,186	76,329	85,328	161,657	98,011	81,094	179,105
	bbl/day	2,382	2,973	5,356	2,248	2,973	5,221	2,462	2,753	5,215	3,267	2,703	5,970
OAPEC AS A % OF U.S. TOTAL		1.3%	0.1%	0.6%	2.6%	*	1.1%	3.6%	0.3%	1.9%	6.1%	1.1%	3.8%

* Less than one-tenth of one percent

1/ Less than ½ unit

Source: U.S. Bureau of Mines and U.S. Bureau of Census

SECTION X. EXPORTS

Table 1. Total U.S. Domestic Production and Exports of Petroleum

Table 2. U.S. Exports of Petroleum to Selected Areas

Table 3. African Oil Exports to Selected Areas

Table 4. Middle East Oil Exports to Selected Areas

Table 5. The Role of Middle East and African Oil in Western European and Japanese Consumption

Table 6. The Role of Middle East and African Oil in World Exports

BEST AVAILABLE COPY

TOTAL U.S. DOMESTIC PRODUCTION AND EXPORTS OF CRUDE OIL AND ITS PRODUCTS
(Thousands of barrels)

	U.S. PRODUCTION[1]		EXPORTS		EXPORTS as a % of U.S. Production
Year	Total	Daily Average	Total	Daily Average	
1947	1,989,850	5,452	164,477	451	8.3
1948	2,167,264	5,922	134,674	368	6.2
1949	1,999,215	5,477	119,376	327	6.0
1950	2,155,693	5,906	111,306	305	5.2
1951	2,452,465	6,719	154,052	422	6.3
1952	2,513,351	6,867	158,188	432	6.3
1953	2,596,661	7,114	146,591	402	5.6
1954	2,567,121	7,033	129,733	355	5.1
1955	2,765,799	7,577	134,188	368	4.9
1956	2,910,010	7,951	157,386	430	5.4
1957	2,911,891	7,978	207,187	568	7.1
1958	2,743,736	7,517	100,638	276	3.7
1959	2,895,347	7,932	77,067	211	2.7
1960	2,915,090	7,964	73,906	202	2.5
1961	2,983,447	8,174	63,563	174	2.1
1962	3,048,894	8,353	61,390	168	2.0
1963	3,153,609	8,640	75,914	208	2.4
1964	3,209,293	8,769	73,879	202	2.3
1965	3,290,070	9,014	68,288	187	2.1
1966	3,496,398	9,579	72,400	198	2.1
1967	3,730,198	10,220	112,060	307	3.0
1968	3,879,353	10,599	84,544	231	2.2
1969	3,951,992	10,827	84,885	233	2.1
1970	4,123,366	11,297	94,458	259	2.3
1971	4,071,729	11,155	81,685	224	2.0
1972	4,093,584	11,185	81,389	222	2.0
1973	3,995,326	10,946	84,413	231	2.1
1974	3,818,683	10,462	80,491	221	2.1
1975	3,652,737	10,007	76,428	209	2.1
1976	3,563,225	9,736	81,599	223	2.3
1977	3,599,720	9,862	88,588	243	2.5
1978	3,750,302	10,275	132,057	362	3.5
1979	3,699,333	10,135	171,856	471	4.6
1980(p)	3,718,793	10,161	103,908	284	2.8

(p) Preliminary

[1] Figures include crude oil, lease condensate and natural gas liquids.

Source: U.S. Energy Information Administration, Annual Petroleum Statements
1980 December Statement

U.S. EXPORTS OF PETROLEUM TO SELECTED AREAS
(Thousands of barrels)

	CANADA		MEXICO		CARIBBEAN[1]		OTHER LATIN AMERICAN		UNITED KINGDOM		OTHER EUROPEAN		MIDDLE EAST		JAPAN		OTHER ASIAN		AFRICA		TOTAL U.S. EXPORTS
Year	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	
1947	39,058	18,266	101	4,446	1,354	5,854	1,120	3,279	299	28,565	4,407	20,674	N.A.		—	—	—	14,565	—	2,786	144,774
1948	33,298	20,660	62	4,157	1,498	8,788	1,417	3,439	471	16,223	2,991	13,149	N.A.		—	—	—	8,576	—	2,400	117,129
1949	29,996	15,137	43	5,037	1,763	8,496	295	4,186	424	12,410	547	11,876	N.A.		—	364	—	7,176	—	2,922	100,672
1950	30,708	15,953	—	6,229	1,829	7,278	661	4,141	441	5,868	851	7,376	N.A.		334	92	—	2,953	—	1,916	92,242
1951	21,172	17,867	—	7,034	2,167	9,729	1,356	3,932	457	13,914	1,048	11,236	N.A.		2,403	4,878	—	11,406	—	4,783	129,766
1952	20,172	25,211	—	7,130	2,513	13,703	1,789	4,295	499	9,889	976	9,466	N.A.		748	7,286	—	13,126	—	5,896	141,352
1953	14,025	26,939	—	8,281	2,620	10,399	1,081	3,515	418	9,201	926	7,809	N.A.		862	10,508	—	8,740	—	5,043	128,573
1954	8,130	22,635	—	12,003	2,928	7,185	608	5,003	462	7,687	745	5,424	N.A.		726	8,166	—	5,996	—	2,734	112,373
1955	6,501	20,329	—	16,062	3,136	7,713	236	6,426	523	8,875	650	7,385	N.A.		515	11,282	—	4,363	—	1,636	115,880
1956	5,570	20,560	—	16,485	3,262	9,979	—	5,007	5,238	10,831	13,377	14,560	N.A.		1,055	9,790	—	4,309	122	2,154	141,014
1957	8,240	18,307	902	15,950	3,283	11,120	—	7,110	14,880	19,660	21,003	29,660	N.A.		1,057	13,642	339	6,431	539	3,328	190,672
1958	1,153	13,497	696	11,568	592	7,977	—	3,661	378	6,010	450	9,420	N.A.		1,076	12,486	—	4,491	—	2,368	88,242
1959	—	16,061	21	8,297	—	3,978	—	4,753	405	6,592	550	9,515	N.A.		1,548	16,153	—	5,819	—	2,383	76,075
1960	—	12,622	—	6,428	—	3,315	—	4,131	433	3,840	568	10,395	N.A.		2,086	20,595	—	5,891	—	2,332	72,636
1961	20	8,381	133	4,415	—	3,721	1	3,143	437	3,268	355	9,401	N.A.		2,218	19,255	55	5,960	—	1,686	62,419
1962	8	7,706	—	4,981	—	2,888	—	3,417	428	2,616	—	10,290	N.A.		1,354	18,333	—	6,544	—	2,655	61,220
1963	2	7,985	3	6,889	—	3,441	—	3,036	424	3,443	1	19,933	N.A.		1,266	20,080	1	7,316	—	3,066	76,886
1964	7	9,791	3	8,920	—	4,503	—	3,656	336	3,191	—	14,387	N.A.		952	19,429	63	6,602	—	2,206	74,046
1965	12	9,619	333	9,452	—	3,322	1	2,635	352	3,924	—	13,365	N.A.		306	14,466	—	7,648	—	1,596	67,031
1966	2	11,715	203	13,955	—	2,179	—	3,240	431	3,784	1	13,522	N.A.		808	12,283	31	7,077	1	2,019	71,251
1967	3,688	14,521	18	12,999	645	3,479	—	4,444	16,959	5,562	4,604	15,318	N.A.		626	17,938	—	7,299	1	2,179	110,280
1968	5	14,126	114	11,140	283	1,603	—	5,138	352	4,838	—	14,912	N.A.		1,048	19,566	—	7,779	—	2,026	82,930
1969	30	16,017	1	12,098	220	2,511	—	5,829	430	4,421	—	17,005	N.A.		755	16,314	—	7,364	—	1,849	84,844
1970	328	10,855	—	12,142	4,264	3,272	—	4,565	176	4,185	—	20,250	N.A.		223	24,868	—	6,343	—	1,475	92,946
1971	60	9,384	—	15,180	181	4,474	—	5,484	120	3,053	—	19,406	—	1,028	139	13,941	1	7,697	2	1,695	81,845
1972	—	9,599	—	15,061	—	3,888	—	4,374	—	3,705	—	24,033	—	1,158	187	11,475	—	6,165	—	1,744	81,389
1973	—	11,427	—	15,984	—	3,614	—	4,294	—	3,249	177	24,863	—	957	520	11,782	—	5,888	—	1,658	84,413
1974[p]	108	11,504	—	12,885	966	3,023	—	4,005	—	2,317	—	24,238	—	1,146	—	13,809	—	4,728	—	1,762	80,491

[p] Preliminary

N.A. Not applicable

[1] As of 1971, includes exports to Puerto Rico and Virgin Islands.

[2] Total includes a quantity of refined products exported to an undesignated area whose destination is undisclosed for security reasons: 1950-5,612, 1951-16,384, 1952-18,653, 1953-18,206, 1954-21,941, 1955-20,239, 1956-18,715, 1957-15,221, 1958-12,419.

Source: U.S. Bureau of Mines: 1947-1974, Minerals Yearbook.

U.S. EXPORTS OF PETROLEUM TO SELECTED AREAS
(Thousands of barrels)

Year	CANADA		MEXICO		CARIBBEAN[1]		OTHER LATIN AMERICAN		UNITED KINGDOM		OTHER EUROPEAN		MIDDLE EAST		JAPAN		OTHER ASIAN		AFRICA		TOTAL U.S. EXPORTS
	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	Crude Oil	Refined Products	
1975	19	8,139	—	15,425	2,127	3,114	—	3,386	—	2,636	—	24,846	—	995	—	10,012	—	3,550	—	2,179	76,428
1976	2,241	8,096	—	12,677	700	8,772	—	3,474	—	2,732	—	27,220	—	1,280	—	9,326	—	3,725	—	2,356	81,599
1977	16,460	9,548	—	8,893	1,795	3,566	—	3,338	—	3,136	—	25,933	—	1,034	—	8,951	—	4,213	—	1,721	88,588
1978	28,761	10,640	—	9,877	28,967	3,373	—	4,459	—	2,447	—	26,457	—	1,380	—	9,642	—	4,802	—	1,252	132,057
1979	26,079	10,299	—	7,835	59,628	3,538	—	4,718	—	2,493	—	37,497	—	1,085	—	12,543	—	4,416	—	1,725	171,856

(1) Includes exports to Puerto Rico and Virgin Islands.

Source: U.S. Energy Information Administration, Annual Petroleum Statements.

AFRICA OIL EXPORTS TO SELECTED AREAS
(Thousands of barrels per day)

Year[1]	United States	Western Europe	Japan	All Other	Total African Exports	United States as a % of African Exports	Western Europe as a % of African Exports	Japan as a % of African Exports	Year[1]
1960	—	237	—	—	237	—	100.0	—	1960
1961	5	430	—	—	435	1.1	98.9	—	1961
1962	25	740	—	—	765	3.3	96.7	—	1962
1963	25	1,125	—	30	1,180	2.1	95.3	—	1963
1964	55	1,565	—	30	1,650	3.3	94.8	—	1964
1965	70	2,040	—	30	2,140	3.3	95.3	—	1965
1966	90	2,540	5	130	2,765	3.3	91.9	0.2	1966
1967	55	2,700	—	155	2,910	1.9	92.8	—	1967
1968	170	3,535	5	165	3,875	4.4	91.2	0.1	1968
1969	330	4,370	15	230	4,945	6.7	88.4	0.3	1969
1970	125	5,330	50	300	5,805	2.2	91.8	0.9	1970
1971	195	4,430	60	805	5,490	3.6	80.7	1.1	1971
1972	495	3,900	75	920	5,390	9.2	72.4	1.4	1972
1973	875	3,575	130	1,005	5,585	15.7	64.0	2.3	1973
1974	1,025	3,215	170	760	5,170	19.8	62.2	3.3	1974
1975	1,350	2,365	140	560	4,415	30.6	53.6	3.2	1975
1976	2,000	2,540	70	720	5,330	37.5	47.7	1.3	1976
1977	2,540	2,580	25	540	5,685	44.7	45.4	0.4	1977
1978	2,285	2,555	—	655	5,495	41.5	46.5	—	1978
1979	2,540	2,880	15	645	6,080	41.8	47.4	0.3	1979
1980	2,000	2,430	70	805	5,305	37.7	45.8	1.3	1980

[1] Not available prior to 1960

Source: "BP Statistical Review of the World Oil Industry," Annual

MIDDLE EAST OIL EXPORTS TO SELECTED AREAS
(Thousands of barrels per day)

Year[1]	United States	Western Europe	Japan	All Others	Total Middle East Exports	United States as a % of Middle East Exports	Western Europe as a % of Middle East Exports	Japan as a % of Middle East Exports	Year[1]
1959	355	2,528	—	1,060	4,120	8.6	61.0	—	1959
1960	347	2,724	—	1,619	4,690	7.4	58.1	—	1960
1961	345	2,855	610	1,280	5,090	6.8	56.1	12.0	1961
1962	315	3,060	720	1,490	5,585	5.6	54.8	12.9	1962
1963	295	3,400	920	1,540	6,155	4.8	55.2	14.9	1963
1964	310	3,740	1,115	1,760	6,925	4.5	54.0	16.1	1964
1965	350	4,195	1,435	1,630	7,610	4.6	55.1	18.9	1965
1966	320	4,375	1,650	2,280	8,625	3.7	50.7	19.1	1966
1967	200	4,605	2,035	2,305	9,145	2.2	50.4	22.3	1967
1968	270	5,065	2,650	2,460	10,445	2.6	48.5	25.4	1968
1969	265	5,780	3,055	2,425	11,525	2.3	50.2	26.5	1969
1970	175	6,220	3,485	2,835	12,715	1.4	48.9	27.4	1970
1971	390	7,685	3,810	3,365	15,250	2.6	50.4	25.0	1971
1972	475	8,570	3,770	4,135	16,950	2.8	50.6	22.2	1972
1973	820	10,350	4,385	4,415	19,970	4.1	51.8	22.0	1973
1974	1,025	10,195	4,050	4,780	20,050	5.1	50.8	20.2	1974
1975	1,140	8,815	3,675	4,875	18,505	6.2	47.6	19.9	1975
1976	1,910	9,405	3,955	5,585	20,855	9.2	45.1	19.0	1976
1977	2,560	8,855	4,095	5,220	20,730	12.3	42.7	19.8	1977
1978	2,300	8,685	4,010	4,735	19,730	11.7	44.0	20.3	1978
1979	2,115	8,685	4,155	5,480	20,435	10.4	42.5	20.3	1979
1980	1,555	7,275	3,560	5,120	17,510	8.9	41.6	20.3	1980

---

[1] Not available prior to 1959

Source: "BP Statistical Review of the World Oil Industry," Annual

THE ROLE OF MIDDLE EAST AND AFRICAN OIL IN WESTERN EUROPEAN AND JAPANESE CONSUMPTION
(Thousands of barrels/day)

	WESTERN EUROPE				JAPAN				
Year	Consumption	From the Middle East	From Africa	Middle East and African Oil as a % of Consumption	Consumption	From the Middle East	From Africa	Middle East and African Oil as a % of Consumption	Year
1961	4,453	2,855	430	73.8	821	610	—	74.3	1961
1962	5,128	3,060	740	74.1	934	720	—	77.1	1962
1963	5,893	3,400	1,125	76.8	1,212	920	—	75.9	1963
1964	6,692	3,740	1,565	79.3	1,484	1,115	—	75.1	1964
1965	7,525	4,195	2,040	82.9	1,743	1,435	—	82.3	1965
1966	8,360	4,375	2,540	82.7	1,979	1,650	5	83.6	1966
1967	8,937	4,605	2,700	81.7	2,144	2,035	—	94.9	1967
1968	9,958	5,065	3,535	86.4	2,660	2,650	5	99.8	1968
1969	11,378	5,780	4,370	89.2	3,250	3,055	15	94.5	1969
1970	12,364	6,220	5,330	93.4	3,847	3,485	50	91.9	1970
1971	12,912	7,685	4,430	93.8	4,179	3,810	60	92.6	1971
1972	13,847	8,570	3,900	90.1	4,364	3,770	75	88.1	1972
1973	14,492	10,350	3,575	96.1	5,071	4,385	130	89.0	1973
1974	13,681	10,195	3,215	98.0	4,960	4,050	170	85.1	1974
1975	12,603	8,815	2,365	88.7	4,502	3,675	140	84.7	1975
1976	13,448	9,405	2,540	88.8	4,771	3,955	70	84.4	1976
1977	14,235	8,855	2,580	80.3	5,345	4,095	25	77.1	1977
1978	14,630	8,685	2,555	76.8	5,420	4,012	10	74.0	1978
1979(r)	15,000	8,685	2,880	77.1	5,485	4,155	15	76.0	1979(r)
1980(p)	14,015	7,275	2,430	69.3	5,010	3,560	70	72.5	1980(p)

(r) Revised

(p) Preliminary

Source: 1961-1978: Western Europe and Japanese Consumption: U.S. Department of Energy, International Petroleum Annual
1979-1980: Western Europe and Japanese Consumption: BP Statistical Review of the World Oil Industry
1961-1979: Middle East and African Exports: BP Statistical Review of the World Oil Industry

THE ROLE OF MIDDLE EAST AND AFRICAN OIL IN WORLD EXPORTS
(Thousands of barrels/day)

		MIDDLE EAST				AFRICA							
		PRODUCTION		EXPORTS		PRODUCTION		EXPORTS					
Year	Total World Production	Volume	% of World Production	Volume	% of Middle East Production	Volume	% of World Production	Volume	% of African Production	Total World Exports	Middle East Exports as a % of Total World Exports	African Exports as a % of Total World Exports	Year
1961	22,428	5,633	25.1	5,090	90.4	489	2.2	435	89.0	9,870	51.6	4.4	1961
1962	24,334	6,186	25.4	5,585	90.3	804	3.3	765	95.1	11,285	49.5	6.8	1962
1963	26,132	6,812	26.1	6,155	90.4	1,190	4.6	1,180	99.2	12,205	50.4	9.7	1963
1964	28,168	7,613	27.0	6,925	91.0	1,704	6.0	1,650	96.8	13,625	50.8	12.1	1964
1965	30,308	8,367	27.6	7,610	91.0	2,224	7.3	2,140	96.2	15,110	50.4	14.2	1965
1966	32,936	9,338	28.4	8,625	92.4	2,821	8.6	2,765	98.0	16,890	51.1	16.4	1966
1967	35,382	10,048	28.4	9,145	91.0	3,117	8.8	2,910	93.4	17,905	51.1	16.3	1967
1968	38,651	11,298	29.2	10,445	92.5	3,992	10.3	3,875	97.1	20,400	51.2	19.0	1968
1969	41,706	12,447	29.8	11,525	92.6	5,069	12.2	4,945	97.6	22,640	50.9	21.8	1969
1970	45,805	13,957	30.5	12,715	91.1	6,069	13.3	5,805	95.7	25,420	50.0	22.8	1970
1971	48,391	16,381	33.9	15,250	93.1	5,645	11.7	5,490	97.3	27,285	55.9	20.1	1971
1972	50,822	18,116	35.6	16,950	93.6	5,699	11.2	5,390	94.6	30,095	56.3	17.9	1972
1973	55,803	21,219	38.0	19,970	94.1	5,922	10.6	5,585	94.3	34,130	58.5	16.4	1973
1974	56,268	21,882	38.9	20,050	91.6	5,452	8.9	5,170	94.8	33,330	60.2	15.5	1974
1975	53,418	19,619	36.7	18,505	94.3	5,003	9.4	4,415	88.2	30,335	61.0	14.6	1975
1976	58,059	22,174	38.2	20,855	94.1	5,832	10.0	5,330	91.4	34,300	60.8	15.5	1976
1977	62,620	22,600	36.1	20,730	93.2	6,236	10.0	5,685	90.5	34,755	59.6	16.4	1977
1978	63,085	21,415	34.0	19,730	92.1	6,115	9.7	5,495	89.7	33,860	58.3	27.8	1978
1979(r)	62,658	21,558	34.4	20,435	94.8	6,640	10.6	6,080	91.6	35,350	57.8	17.2	1979(r)
1980(p)	59,454	18,407	31.0	17,510	95.1	6,031	10.1	5,305	88.0	31,935	54.8	16.6	1980(p)

(r) Revised
(p) Preliminary

Source: 1961-1978: Total World, Middle East and African Production, U.S. Department of Energy, International Petroleum Annual
1979-1980: Total World, Middle East and African Production, CIA, International Energy Statistical Review
1961-1980: Total World, Middle East and African Exports, BP Statistical Review of the World Oil Industry

SECTION XI. OFFSHORE

Table 1. Estimated World Production of Crude Oil, Onshore vs Offshore

Table 2. Estimated Worldwide Offshore Production of Crude Oil by Areas

Table 3. Production and Value of U.S. Crude Oil and Condensate Onshore-Offshore

Table 4. Estimated Worldwide Production of Natural Gas, Onshore vs Offshore

Table 5. Estimated Worldwide Offshore Production of Natural Gas by Areas

Table 6. Production and Value of U.S. Natural Gas, Onshore-Offshore

Table 7. Total Offshore Wells Drilled in the United States, Federal and State Leases

Table 8. Accumulated Production State and Federal Offshore Leases

Table 9. U.S. Outer Continental Shelf Oil and Gas Lease Sales

Table 10. U.S. Outer Continental Shelf Revenue and Production Value

Table 11. U.S. Outer Continental Shelf Oil and Gas Sales, Total Bonus vs Total Amount of All Bids Received

Table 12. State and Federal OCS Petroleum Production

Table 13. United States Offshore Platforms

Table 14. Worldwide Water Depth Records

Table 15. Eight-Year OCS Blowout Experience

Table 16. Oil Spill Incidents of 238 or More Barrels

Table 17. Historical Data on Leasing Continental Seabeds Adjacent to the United States

Table 18. Basin Ranking

Table 19. Proposed 5-Year OCS Oil and Gas Leasing Schedule

BEST AVAILABLE COPY

ESTIMATED WORLD PRODUCTION OF CRUDE OIL
ONSHORE vs OFFSHORE
(Thousands of barrels)

Year(1)	Onshore Production	Offshore Production	Total World Production	Offshore Production as a % of World Production
1969	12,961,336	2,261,175	15,222,511	14.9
1970	13,969,418	2,749,290	16,718,708	16.4
1971	14,660,828	3,001,965	17,662,793	17.0
1972	15,360,100	3,240,645	18,600,745	17.4
1973	16,733,997	3,633,984	20,367,981	17.8
1974	17,132,097	3,405,630	20,537,727	16.6
1975	16,315,469	3,186,866	19,502,335	16.3
1976	17,666,395	3,525,145	21,191,540	16.6
1977	17,748,290	4,152,405	21,900,695	19.0
1978(r)	17,963,201	4,195,050	22,158,251	18.9
1979(r)	18,205,470	4,559,580	22,765,050	20.0
1980	16,763,166	5,006,880	21,770,046	23.0
		(Thousands of barrels per day)		
1969	35,511	6,195	41,706	14.9
1970	38,273	7,532	54,805	16.4
1971	40,166	8,225	48,381	17.0
1972	41,968	8,854	50,822	17.4
1973	45,847	9,956	55,803	17.8
1974	46,937	9,330	56,267	16.6
1975	44,687	8,731	53,418	16.3
1976	48,269	9,632	57,900	16.6
1977	48,626	11,376	60,002	19.0
1978(r)	49,215	11,493	60,708	18.9
1979(r)	49,878	12,492	62,370	20.0
1980	45,801	13,680	59,481	23.0

(r) Revised

(1) Data not available for prior years

Source: Total World Production, U.S. Energy Information Administration; 1980 production, CIA.
United Stated Offshore Production, U.S. Geological Survey and U.S. Energy Information Administration
Rest of World Offshore Production, Offshore Magazine

ESTIMATED WORLDWIDE OFFSHORE PRODUCTION OF CRUDE OIL BY AREA
(Thousands of barrels)

	WESTERN HEMISPHERE													
Year(1)	United States	Venezuela	Other Latin America	Total	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations(2)	Total World	U.S. as a Percent of Free World Total	U.S. as a Percent of World Total	Year(1)
1970	575,715	897,900	43,435	1,517,050	760,660	239,805	133,225	4,380	2,655,120	94,170	2,749,290	21.7%	20.9%	1970
1971	614,754	908,850	69,423	1,593,027	913,413	233,856	158,410	12,009	2,910,715	91,250	3,001,965	21.1	20.5	1971
1972	607,572	915,000	82,350	1,604,922	1,040,538	276,293	216,705	15,811	3,154,269	86,376	3,240,645	19.3	18.7	1972
1973	578,998	985,500	65,822	1,630,320	1,282,161	323,178	287,467	24,718	3,547,844	86,140	3,633,984	16.3	15.9	1973
1974	543,636	755,999	73,653	1,373,288	1,262,732	380,341	275,082	29,872	3,321,315	84,315	3,405,630	16.4	16.0	1974
1975	497,266	634,042	97,400	1,228,708	1,070,348	364,876	323,221	116,493	3,103,646	83,220	3,186,866	16.0	15.6	1975
1976(r)	462,470	613,863	107,103	1,183,436	1,198,203	384,553	407,578	270,855	3,444,625	80,520	3,525,145	13.4	13.1	1976(r)
1977(r)	429,075	456,250	107,675	993,695	1,647,975	490,195	549,690	396,025	4,077,580	74,825	4,152,405	10.5	10.3	1977(r)
1978(r)	414,745	395,660	103,660	914,065	1,734,845	414,275	525,600	532,535	4,121,320	73,730	4,195,050	10.1	9.9	1978(r)
1979(r)	389,077	383,250	255,135	1,027,462	1,934,135	355,510	490,560	736,570	4,544,237	71,905	4,616,142	8.6	8.4	1979(r)
1980(p)	376,980	401,136	281,820	1,059,936	2,148,054	333,060	541,680	850,218	4,932,948	73,932	5,006,880	7.6	7.5	1980(p)
							(Thousands of barrels per day)							
1970	1,577	2,460	119	4,156	2,084	657	365	12	7,274	258	7,532	21.7	20.9	1970
1971	1,684	2,490	190	4,364	2,503	641	434	33	7,975	250	8,225	21.1	20.5	1971
1972	1,660	2,500	225	4,385	2,843	755	592	43	8,618	236	8,854	19.3	18.7	1972
1973	1,586	2,700	180	4,466	3,513	885	788	68	9,720	236	9,956	16.3	15.9	1973
1974	1,489	2,071	202	3,762	3,460	1,042	754	82	9,100	231	9,331	16.4	16.0	1974
1975	1,362	1,737	267	3,366	2,932	1,000	886	319	8,503	228	8,731	16.0	15.6	1975
1976(r)	1,263	1,677	293	3,233	3,542	783	1,114	740	9,412	220	9,632	13.4	13.1	1976(r)
1977(r)	1,176	1,250	295	2,721	4,960	898	1,506	1,085	11,170	205	11,375	10.5	10.3	1977(r)
1978(r)	1,136	1,084	284	2,504	5,195	693	1,440	1,459	11,291	202	11,493	10.1	9.9	1978(r)
1979(r)	1,066	1,050	699	2,815	5,149	974	1,344	2,018	12,300	192	12,492	8.6	8.4	1979(r)
1980(p)	1,030	1,096	770	2,896	5,869	910	1,480	2,323	13,478	202	13,680	7.6	7.5	1980(p)

(r) Revised
(p) Preliminary
(1) Data not available for prior years.
(2) Only the U.S.S.R. is reported having offshore production

Source: United States Production: 1970-1971, U.S. Geological Survey; 1972-1980, U.S. Energy Information Administration
Rest of World–Offshore Magazine.

PRODUCTION AND VALUE OF U.S. CRUDE OIL AND CONDENSATE
ONSHORE-OFFSHORE

	PRODUCTION (Thousands of Barrels)			Offshore as a % of Total	DOLLAR VALUE AT WELLHEAD (Thousands of Dollars)			Average Per Barrel (Dollars)	
Year	Onshore	Offshore	Total		Onshore[1]	Offshore[1]	Total		Year
Cumulative to 1953	47.336.529	477.188	47.813.717	1.0%	$81.065.039	$ 818.839	$81.883.878	$1.71	Cumulative to 1953
1954	2.266.387	48.601	2.314.988	2.1	6.290.006	134.924	6.424.930	2.78	1954
1955	2.425.289	59.139	2.484.428	2.4	6.705.491	164.889	6.870.380	2.77	1955
1956	2.543.889	73.394	2.617.283	2.8	7.059.563	203.362	7.262.925	2.77	1956
1957	2.533.249	83.652	2.616.901	3.2	7.820.723	258.536	8.079.259	3.09	1957
1958	2.362.773	86.214	2.448.987	3.5	7.121.674	258.299	7.379.973	3.01	1958
1959	2.474.511	100.079	2.574.590	3.9	7.181.876	291.460	7.473.336	2.90	1959
1960	2.458.170	116.763	2.574.933	4.5	7.086.273	333.908	7.420.181	2.88	1960
1961	2.488.382	133.376	2.621.758	5.1	7.179.732	385.850	7.565.582	2.89	1961
1962	2.513.972	162.217	2.676.189	6.1	7.299.834	474.217	7.774.051	2.90	1962
1963	2.564.621	188.102	2.752.723	6.8	7.424.072	541.671	7.965.743	2.89	1963
1964	2.572.003	214.819	2.786.822	7.7	7.399.763	617.315	8.017.078	2.88	1964
1965	2.605.862	242.652	2.848.514	8.5	7.464.843	693.455	8.158.298	2.86	1965
1966	2.727.493	300.270	3.027.763	9.9	7.862.507	863.916	8.726.423	2.88	1966
1967	2.847.565	368.177	3.215.742	11.4	8.306.894	1.068.833	9.375.727	2.92	1967
1968	2.857.851	471.191	3.329.042	14.2	8.403.961	1.390.865	9.794.826	2.94	1968
1969	2.845.919	525.832	3.371.751	15.6	8.800.118	1.626.562	10.426.680	3.09	1969
1970	2.941.736	575.714	3.517.450	16.4	9.341.235	1.832.491	11.173.726	3.18	1970
1971	2.839.160	614.754	3.453.914	17.8	9.611.644	2.081.354	11.692.998	3.39	1971
1972	2.847.796	607.572	3.455.368	17.6	9.646.164	2.060.346	11.706.510	3.39	1972
1973	2.781.905	578.998	3.360.903	17.2	10.808.354	2.249.551	13.057.905	3.89	1973
1974[r]	2.658.949	543.636	3.202.585	17.0	17.911.856	3.668.693	21.580.549	6.74	1974[r]

r/ Revised

1/ Total dollar value distributed in proportion to percentages of production onshore and offshore

Sources: Total U.S. Production and Total Dollar Value at Wellhead, U.S. Bureau of Mines
U.S. Offshore Production, 1973-1974, U.S. Bureau of Mines; All other years, U.S. Geological Survey
Distribution of production and value computed by the American Petroleum Institute

PRODUCTION AND VALUE OF U.S. CRUDE OIL AND CONDENSATE
ONSHORE-OFFSHORE

Year	PRODUCTION (Thousands of Barrels) Onshore	Offshore	Total	Offshore as a % of Total	DOLLAR VALUE AT WELLHEAD (Thousands of Dollars) Onshore(1)	Offshore(1)	Total	Average Per Barrel (Dollars)	Year
1975	2,559,513	497,266	3,056,779	16.3%	$19,325,025	$3,791,034	$23,116,059	$7.56	1975
1976	2,513,710	462,470	2,976,180	15.5	20,464,500	3,765,040	24,229,540	8.14	1976
1977	2,555,589	429,771	2,985,360	14.4	22,076,358	3,713,864	25,790,722	8.57	1977
1978(r)	2,763,471	414,745	3,178,216	13.0	24,775,707	3,702,117	28,477,824	8.96	1978(r)
1979	2,731,902	389,408	3,121,310	12.5	34,169,915	4,881,417	39,051,332	12.51	1979

(r) Revised

(1) Total dollar value distributed in proportion to percentages of production onshore and offshore

Source: U.S. Energy Information Administration, Annual Petroleum Statements
Distribution of production and value computed by the American Petroleum Institute

ESTIMATED WORLDWIDE PRODUCTION OF NATURAL GAS
ONSHORE vs OFFSHORE
(Millions of cubic feet)

Year	Onshore Production	Offshore Production	Total World Production	Offshore Production as a % of World Production
1970	32,832,942	5,261,019(1)	38,093,961	13.8%
1971	36,505,911	4,682,485(1)	41,188,396	11.4
1972	39,506,581	4,017,978(1)	43,524,559	9.2
1973	40,434,180	5,709,421	46,143,601	12.4
1974	40,934,670	6,243,850	47,178,520	13.2
1975	39,864,833	7,652,941	47,517,774	16.1
1976(r)	37,475,038	10,830,646	48,305,684	22.4
1977(r)	42,475,464	7,624,626	50,100,090	15.2
1978(p)	41,969,936	9,779,366	51,749,302	18.9
(Millions of cubic feet per day)				
1970	89,953	14,414	104,367	13.8%
1971	100,016	12,829	112,845	11.4
1972	105,210	13,710	118,920	9.2
1973	110,779	15,642	126,421	12.4
1974	112,150	17,106	129,256	13.2
1975	109,219	20,967	130,186	16.1
1976(r)	102,391	29,592	131,983	22.4
1977(r)	116,371	20,889	137,261	15.2
1978(p)	114,986	26,793	141,779	18.9

(r) Revised

(p) Preliminary

(1) Reflects Free World offshore production since Communist Nation production figures are not available prior to 1973.

Source: Offshore Production, Offshore Magazine and U.S. Geological Survey
Total World Production, 1970-78 U.S. Energy Information Administration, World Natural Gas Annual

ESTIMATED WORLDWIDE OFFSHORE PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

Year	WESTERN HEMISPHERE United States	WESTERN HEMISPHERE Latin America	WESTERN HEMISPHERE Total	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations	Total World	U.S. as a % of Free World Production	U.S. as a % of Total World Production	Year
1970	3,218,117	27,601	3,245,718	1,568,000	28,700	22,101	396,500	5,261,019	N.A.	N.A.	61.2	N.A.	1970
1971	3,750,678	26,806	3,777,484	214,299	N.A.	35,801	654,901	4,682,485	N.A.	N.A.	80.1	N.A.	1971
1972	3,757,415	26,301	3,783,716	252,602	N.A.	44,568	937,092	5,017,978	N.A.	N.A.	74.9	N.A.	1972
1973	3,975,335	28,317	4,003,652	263,435	N.A.	102,784	1,095,000	5,464,871	244,550	5,709,421	72.7	69.6	1973
1974	4,229,751	39,913	4,269,664	259,661	N.A.	135,900	1,314,000	5,979,225	264,625	6,243,850	70.7	67.7	1974
1975(r)	4,257,360	54,020	4,311,380	1,396,125	114,610	132,130	1,388,095	7,342,340	282,510	7,624,850	58.0	55.8	1975(r)
1976(r)	4,296,474	123,342	4,419,816	259,860	183,000	233,874	5,406,186	10,502,736	328,302	10,831,038	40.9	39.7	1976(r)
1977(r)	4,539,870	134,685	4,674,555	333,975	79,935	464,645	1,707,835	7,260,945	363,540	7,624,485	62.5	59.4	1977(r)
1978(r)	5,104,160	219,730	5,323,890	365,365	80,665	897,535	2,453,165	9,120,620	388,360	9,508,980	56.0	53.7	1978(r)
1979	5,420,615	201,480	5,622,095	362,080	182,500	759,930	2,717,425	9,644,030	423,765	10,067,795	56.2	53.8	1979
1980(p)	5,366,658	223,260	5,589,918	546,072	185,928	712,602	2,691,198	9,725,718	448,350	10,174,068	55.2	52.7	1980(p)
(Millions of cubic feet per day)													
1970	8,817	75	8,892	4,296	79	61	1,086	14,414	N.A.	N.A.	61.2	N.A.	1970
1971	10,276	73	10,349	587	N.A.	98	1,794	12,829	N.A.	N.A.	80.1	N.A.	1971
1972	10,266	72	10,388	690	N.A.	122	2,560	13,710	N.A.	N.A.	74.9	N.A.	1972
1973	10,891	78	10,969	722	N.A.	282	3,000	14,972	670	15,642	72.7	69.9	1973
1974	11,588	109	11,697	711	N.A.	372	3,600	16,380	725	17,106	70.7	67.7	1974
1975(r)	11,664	148	11,812	3,825	314	362	3,803	20,116	774	20,890	58.0	55.8	1975(r)
1976(r)	11,739	337	12,076	710	500	639	14,771	28,696	897	29,593	40.9	39.7	1976(r)
1977(r)	12,438	369	12,807	915	219	1,273	4,679	19,893	996	20,889	62.5	59.4	1977(r)
1978(r)	13,984	602	14,586	1,001	221	2,459	6,721	24,988	1,064	26,052	56.0	53.7	1978(r)
1979	14,851	552	15,403	992	500	2,082	7,445	26,422	1,161	27,583	56.2	53.8	1979
1980(p)	14,663	610	15,273	1,492	508	1,947	7,353	26,573	1,225	27,798	55.2	52.7	1980(p)

(r) Revised
(p) Preliminary
N.A. Not available

Source: U.S. Production–U.S. Geological Survey
Rest of World–Offshore Magazine

PRODUCTION AND VALUE OF U.S. NATURAL GAS
ONSHORE - OFFSHORE

Year	PRODUCTION (Millions of Cubic Feet)			Offshore as a % of Total	DOLLAR VALUE AT WELLHEAD (Thousands of Dollars)			Average Per Thousand Cubic Feet (Cents)	Year
	Onshore	Offshore	Total		Onshore[1]	Offshore[1]	Total		
Cumulative to 1953	142.838.325	91.675	142.930.000	0.06%	$ —	$ —	$ —	—	Cumulative to 1953
1954	8.657.781	84.765	8.742.546	1.0	873.676	8.825	882.501	10.1	1954
1955	9.277.192	128.159	9.405.351	1.4	964.660	13.697	978.357	10.4	1955
1956	9.938.516	143.407	10.081.923	1.4	1.068.639	15.173	1.083.812	10.8	1956
1957	10.506.021	174.237	10.680.258	1.6	1.182.531	19.228	1.201.759	11.3	1957
1958	10.772.251	258.047	11.030.298	2.3	1.287.190	30.302	1.317.492	11.9	1958
1959	11.692.755	353.360	12.046.115	2.9	1.511.653	45.147	1.556.800	13.0	1959
1960	12.330.577	440.461	12.771.038	3.4	1.729.111	60.859	1.789.970	14.0	1960
1961	12.775.881	478.144	13.254.025	3.6	1.924.376	71.865	1.996.241	15.1	1961
1962	13.236.310	640.312	13.876.622	4.6	2.046.617	98.684	2.145.301	15.5	1962
1963	13.903.285	763.274	14.666.559	5.2	2.206.972	121.058	2.328.030	15.9	1963
1964	14.612.386	849.757	15.462.143	5.5	2.256.366	131.323	2.387.689	15.4	1964
1965	15.100.329	939.424	16.039.753	5.9	2.347.364	147.178	2.494.542	15.6	1965
1966	15.833.431	1.373.197	17.206.628	8.0	2.486.538	216.221	2.702.759	15.7	1966
1967	16.333.573	1.837.752	18.171.325	10.1	2.605.968	292.773	2.898.741	16.0	1967
1968	17.001.069	2.321.331	19.322.400	12.0	2.788.445	380.243	3.168.688	16.4	1968
1969	17.853.564	2.844.676	20.698.240	13.7	2.982.196	473.419	3.455.615	16.7	1969
1970	18.702.524	3.218.118	21.920.642	14.7	3.195.065	550.615	3.745.680	17.1	1970
1971	18.742.333	3.750.679	22.493.012	16.7	3.403.207	682.275	4.085.482	18.2	1971
1972 r/	18.774.283	3.757.415	22.531.698	16.7	3.483.161	697.301	4.180.462	18.6	1972 r/
1973	18.672.212	3.975.337	22.647.549	17.6	4.032.715	861.357	4.894.072	21.6	1973
1974	17.370.769	4.229.753	21.600.522	19.6	5.285.015	1.288.387	6.573.402	30.4	1974

---

r/ Revised

[1] Total dollar value distributed in proportion to percentage of production onshore and offshore

Sources: U.S. Total Production and Total Dollar Value at the Wellhead, U.S. Bureau of Mines
U.S. Offshore Production, U.S. Geological Survey
Distribution of production and value computed by the American Petroleum Institute

PRODUCTION AND VALUE OF U.S. NATURAL GAS
ONSHORE - OFFSHORE

Year	PRODUCTION (Millions of Cubic Feet)			Offshore as a % of Total	DOLLAR VALUE AT WELLHEAD (Thousands of Dollars)			Average Per Thousand Cubic Feet (Cents)	Year
	Onshore	Offshore	Total		Onshore [1]	Offshore [1]	Total		
1975	15,851,200	4,257,461	20,108,661	21.2%	$ 7,048,709	$1,896,353	$ 8,945,062	44.5	1975
1976	15,656,118	4,296,320	19,952,438	21.5	9,080,048	2,491,728	11,571,776	58.0	1976
1977	15,485,463	4,540,000	20,025,463	22.7	12,232,462	3,592,492	15,825,954	79.0	1977
1978	14,870,033	5,104,000	19,974,033	25.6	13,457,380	4,619,120	18,076,500	90.5	1978
1979	15,050,302	5,420,958	20,471,260	26.5	17,723,521	6,390.113	24,113,634	117.8	1979

[1] Total dollar value distributed in proportion to percentage of production onshore and offshore

Source: U.S. Energy Information Administration, Natural Gas Annuals
Distribution of production and value computed by the American Petroleum Institute

TOTAL OFFSHORE WELLS DRILLED IN THE UNITED STATES[1]
FEDERAL AND STATE LEASES
Alltime to January 1, 1980

	EXPLORATORY WELLS				DEVELOPMENT WELLS				TOTAL WELLS			
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
ALASKA												
State	19	7	54	80	240	12	29	281	259	19	83	361
Federal	—	—	19	19	—	—	—	—	—	—	19	19
Total	19	7	73	99	240	12	29	281	259	19	102	380
CALIFORNIA												
State	18	9	134	161	2,832	22	290	3,144	2,850	31	424	3,305
Federal	16	—	123	139	257	1	9	267	273	1	132	406
Total	34	9	257	300	3,089	23	299	3,411	3,123	32	556	3,711
OREGON												
Federal	—	—	8	8	—	—	—	—	—	—	8	8
WASHINGTON												
State	—	—	2	2	—	—	—	—	—	—	2	2
Federal	—	—	4	4	—	—	—	—	—	—	4	4
Total	—	—	6	6	—	—	—	—	—	—	6	6
PACIFIC OCEAN												
State	37	16	190	243	3,072	34	319	3,425	3,109	50	509	3,668
Federal	16	—	154	170	257	1	9	267	273	1	163	437
Total	53	16	344	413	3,329	35	328	3,692	3,382	51	672	4,105
FLORIDA												
State	—	—	15	15	—	—	—	—	—	—	15	15
Federal	—	—	9	9	—	—	—	—	—	—	9	9
Total	—	—	24	24	—	—	—	—	—	—	24	24
LOUISIANA												
State	60	94	769	923	1,756	455	635	2,846	1,816	549	1,404	3,769
Federal	200	244	2,617	3,061	5,589	3,028	3,059	11,676	5,789	3,272	5,676	14,737
Total	260	338	3,386	3,984	7,345	3,483	3,694	14,522	7,605	3,821	7,080	18,506
TEXAS												
State	30	130	546	706	36	93	94	223	66	223	640	929
Federal	9	50	806	865	31	126	488	645	40	176	1,294	1,510
Total	39	180	1,352	1,571	67	219	582	868	106	399	1,934	2,439
N. GULF OF MEXICO												
Federal	—	—	128	128	29	—	13	42	29	—	141	170
GULF OF MEXICO												
State	90	224	1,330	1,644	1,792	548	729	3,069	1,882	772	2,059	4,713
Federal	209	294	3,561	4,064	5,649	3,154	3,560	12,363	5,858	3,448	7,121	16,427
Total	299	518	4,891	5,708	7,441	3,702	4,289	15,432	7,740	4,220	9,180	21,140
ATLANTIC OCEAN												
Federal	—	—	21	21	—	—	—	—	—	—	21	21
GRAND TOTAL												
State	127	240	1,520	1,887	4,864	582	1,048	6,494	4,991	822	2,568	8,381
Federal	225	294	3,736	4,255	5,906	3,155	3,569	12,630	6,131	3,449	7,305	16,885
Total	352	534	5,256	16,142	10,770	3,737	4,617	19,124	11,122	4,271	9,873	25,266

---

[1] Offshore wells are defined as those producing from beyond natural shorelines.

Source: American Petroleum Institute

DEEPEST OFFSHORE WELL: Gulf Oil's S.L.-3529 No. 7, West Delta Block 27, Offshore Louisiana—TD 22,840 feet. DEEPEST OFFSHORE PRODUCING WELL: Hunt Oil's S.L. 5015 Grand Isle Block 25, Offshore Louisiana—TD 20,500 feet. WELL DRILLED DEEPEST WATER: Phillips, OCSG-4135#1, Gulf of Mexico—TD 2,150 feet. World: Texaco Canada; Newfoundland—TD 4,876 feet. PLATFORM IN DEEPEST WATER: Shell Cognac—TD 1,025 feet.

ACCUMULATED PRODUCTION STATE AND FEDERAL OFFSHORE LEASES
ALLTIME TO JANUARY 1, 1981

	Oil & Lease Condensate M bbls	Percent of Total	Gas MMCF	Percent of Total
ALASKA				
State	734,604	100	833,151	100
Federal	—	—	—	—
CALIFORNIA				
State	1,757,864	90	649,053	89
Federal	195,318	10	80,220	11
Subtotal	1,953,182		729,273	
WEST COAST				
State	2,492,468	93	1,482,204	95
Federal	195,318	7	80,220	5
Subtotal	2,687,786		1,562,424	
LOUISIANA				
State	1,217,901	19	9,355,693	17
Federal	5,192,104	81	45,677,793	83
Subtotal	6,410,005		55,033,486	
TEXAS				
State	22,338	37	2,269,313	45
Federal	38,036	63	2,773,604	55
Subtotal	60,374		5,042,917	
GULF OF MEXICO				
State	1,240,239	19	11,625,006	19
Federal	5,230,140	81	48,451,397	81
Subtotal	6,470,379		60,076,403	
TOTAL				
State	3,732,707	41	13,107,210	21
Federal	5,425,458	59	48,531,617	79
GRAND TOTAL	9,158,165		61,638,827	

Source: U.S. Geological Survey, Outer Continental Shelf Statistics, June 1981.

U.S. OUTER CONTINENTAL SHELF OIL AND GAS LEASE SALES

Date	State	OFFERED		LEASED		Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
		Tracts	Acres	Tracts	Acres				
10/13/54	La.	199	748,000	90	394,721	$116,378,476	$ 1,184,175	$ 295	$1,220
11/09/54	Tex.	38	111,788	19	67,149	23,357,029	201,450	348	2,209
07/12/55	Tex.	39	216,000	27	149,760	8,437,462	449,280	56	177
07/12/55	La.	171	458,095	94	252,807	100,091,263	758,442	396	2,077
07/26/59	Fla.	80	458,000	23	132,480	1,711,872	397,440	13	16
08/11/59	La.	38	81,813	19	38,820	88,035,121	388,200	2,268	10,442
02/26/60	Tex.	97	437,760	48	240,480	35,732,031	721,440	149	1,026
02/26/60	La.	288	1,173,223	99	464,046	246,909,784	1,392,159	532	2,502
03/13/62	La.	401	1,808,276	206	951,811	177,260,305	2,855,433	186	3,201
03/16/62	Tex.	30	90,720	10	28,800	557,720	86,400	19	26
03/16/62	La.	380	1,780,265	195	927,746	267,775,727	2,783,238	289	3,081
10/09/62	La.	19	33,855	9	16,178	43,887,359	161,780	2,713	8,480
05/14/63	Cal.	129	669,777	57	312,945	12,807,587	938,838	41	455
04/28/64	La.	28	34,028	23	32,673	60,340,626	326,780	1,847	10,490
10/01/64	Ore.	149	836,134	74	425,433	27,768,772	1,276,302	65	376
10/01/64	Wash.	47	253,940	27	155,420	7,764,928	466,260	50	310
03/29/66	La.	18	35,993	17	35,056	88,845,963	350,570	2,534	6,112
10/18/66	La.	52	227,898	24	104,717	99,164,930	523,600	947	3,128
12/15/66	Cal.	1	1,995	1	1,995	21,189,000	9,980	10,621	10,621
06/13/67	La.	206	971,489	158	744,456	510,079,178	2,233,458	685	6,500
02/06/68	Cal.	110	540,609	71	363,181	602,719,262	1,089,543	1,660	11,374
05/21/68	Tex.	169	728,551	110	541,304	593,899,046	1,623,915	1,097	7,602
11/19/68	La.	26	46,824	16	29,682	149,868,789	296,820	5,049	27,401
01/14/69	La.	38	96,389	20	48,505	44,037,339	485,050	908	2,161
12/16/69	La.	27	93,764	16	60,153	66,908,196	601,550	1,112	6,600
07/21/70	La.	34	73,360	19	44,642	97,769,013	446,420	2,190	8,201
12/15/70	La.	127	593,485	119	553,898	847,295,760	1,661,694	1,536	12,875
11/04/71	La.	18	55,872	11	37,222	96,304,522	372,230	2,587	18,005
09/12/72	La.	78	366,682	62	290,321	585,827,925	870,996	2,018	21,870
12/19/72	La.	132	604,029	116	535,874	1,665,519,631	1,607,661	3,108	21,630
06/19/73	La.	5	25,000	4	20,000	53,901,709	60,000	2,695	4,892
06/19/73	Tex.	124	672,643	96	527,173	1,537,495,671	1,581,519	2,916	13,491
12/20/73	Ala.	44	248,636	13	74,106	135,834,100	222,318	1,833	7,507
12/20/73	Fla.	85	489,600	62	357,120	1,100,399,131	1,071,360	3,081	36,805
12/20/73	La.	9	27,221	6	19,611	139,130,000	58,839	7,094	20,757
12/20/73	Miss.	9	51,840	6	34,560	115,702,000	103,680	3,348	7,013
03/28/74	La.	206	930,918	91	421,218	2,092,510,854	1,263,675	4,968	33,772
05/29/74	Tex.	245	1,355,678	102	565,112	1,471,851,831	1,695,336	2,605	13,372
07/30/74	La.	115	508,173	9	46,988	7,971,900	140,967	170	1,563
07/30/74	Tex.	143	790,566	10	53,253	22,264,900	159,762	418	1,108
10/16/74	La.	297	1,421,546	144	675,587	1,428,261,330	2,026,812	2,114	39,111
TOTAL		4,451	20,150,435	2,323	10,772,003	14,793,568,042	34,945,372	1,373	

Source: U.S. Department of the Interior, U.S. Geological Survey

U.S. OUTER CONTINENTAL SHELF OIL AND GAS LEASE SALES

Date	State	OFFERED		LEASED		Total Bonus (Dollars)	Total First Year Rental (Dollars)	Average Bid Per Acre (Dollars)	Highest Bid Per Acre (Dollars)
		Tracts	Acres	Tracts	Acres				
Cumulative totals 1954-1974		4,451	20,150,435	2,323	10,772,003	$14,793,568,042	$34,945,372	$1,373	—
2/04/75	Tex.	515	2,870,344	113	626,585	274,690,955	1,897,761	438	$ 3,566
5/28/75	La.	247	1,153,772	77	355,102	207,064,050	1,065,336	583	5,085
5/28/75	Tex.	36	192,660	9	51,840	25,852,000	155,520	499	1,508
7/29/75	La.	160	762,456	43	206,701	118,360,638	620,106	573	2,732
7/29/75	Tex.	185	1,010,502	23	129,600	44,853,368	388,800	346	1,842
12/11/75	Cal.	231	1,257,593	56	310,049	417,312,141	930,147	1,346	18,260
2/18/76	La.	41	181,610	18	74,823	134,554,317	224,477	1,798	10,678
2/18/76	Tex.	31	155,702	12	63,423	37,382,176	190,270	589	2,126
2/18/76	Fla.	60	350,292	4	23,040	4,040,000	69,120	175	280
4/13/76	Ak.	189	1,008,499	76	409,057	559,836,587	1,226,718	1,369	11,023
8/17/76	MAL[1]	154	876,750	93	529,466	1,127,936,425	1,714,176	2,130	18,933
11/16/76	La.	55	225,660	39	160,819	348,037,718	482,472	2,164	23,606
11/16/76	Tex.	6	28,828	4	17,308	31,111,244	51,924	1,798	4,200
6/23/77	La.	187	867,176	97	454,711	813,991,004	1,364,130	1,790	14,454
6/23/77	Tex.	36	207,360	27	150,723	356,102,428	452,172	2,363	13,520
10/27/77	Ak.	135	768,588	87	495,307	398,471,313	1,603,584	804	13,525
3/28/78	S.Al.	224	1,275,301	43	244,813	100,743,443	792,576	412	1,650
4/25/78	La.	37	392,894	57	262,250	503,820,339	789,770	1,921	11,038
4/25/78	Tex.	58	316,833	33	176,506	229,836,554	526,513	1,300	6,312
10/31/78	Al.	18	103,375	7	40,015	17,353,000	120,045	433	1,306
10/31/78	Fla.	71	408,334	28	161,280	43,823,730	483,840	272	1,422
12/19/78	La.	79	366,427	52	248,020	512,053,605	809,453	2,065	18,778
12/19/78	Tex.	49	277,560	29	164,396	359,411,393	539,635	2,186	12,384
[r]2/28/79	MAL[1]	109	620,557	39	222,038	40,001,631	718,848	180	6,832
6/29/79	Ca.	148	792,845	54	288,260	572,825,418	867,489	1,987	37,280
7/31/79	La.	81	361,747	53	254,497	867,937,556	763,514	3,410	35,963
7/31/79	Tx.	42	215,770	28	136,685	379,551,466	410,056	2,777	33,779
11/27/79	La.	96	433,081	72	320,719	1,653,253,077	962,190	5,155	41,320
11/27/79	Tx.	28	155,520	18	100,800	260,084,860	302,400	2,580	9,323
12/11/79	Ak.	46	172,320	24	85,776	488,691,138	277,808	5,697	43,802
12/18/79	NA[2]	116	660,409	63	358,671	816,516,546	1,161,216	2,277	34,852
9/30/80	La.	192	909,575	116	551,643	2,676,927,673	1,654,962	4,853	52,467
10/21/80	Ak.	210	1,195,569	35	199,261	109,751,073	645,120	551	3,602
11/18/80	Tx.	81	458,308	67	383,323	1,417,961,511	1,149,969	3,699	29,341
TOTAL (1954-1980)		9,358	42,857,357	3,980	19,142,130	30,779,503,142	60,525,536	1,606	

---

[r] Figures for 1979 were revised.
[1] Middle Atlantic
[2] North Atlantic

Source: U.S. Department of the Interior, U.S. Geological Survey, Outer Continental Shelf Statistics

U.S. OUTER CONTINENTAL SHELF
REVENUE AND PRODUCTION VALUE
PERCENTAGE CUMULATIVE REVENUE OF CUMULATIVE PRODUCTION VALUE
CALENDAR YEARS

Year — All States	Bonuses	Minimum Royalties	Rentals	Shut-in Gas Payments	Royalties	Total Revenue	Total Cumulative Revenue	Total Production Value	Total Cumulative Production Value	Percent[1]
1953	$ -	$ -	$1,359,630	$ 30,650	$ 967,892	$ 2,358,172	$ 2,358,172	$ 5,036,861	$ 5,036,861	47%
1954	140,969,005	-	3,855,333	86,950	2,748,977	147,660,265	150,018,437	14,370,098	19,406,959	773
1955	108,528,725	-	3,406,351	122,000	5,140,006	117,197,082	267,215,519	27,060,679	46,467,638	575
1956	-	-	4,006,193	79,950	7,629,383	11,715,526	278,931,045	39,497,871	85,965,509	324
1957	-	68,581	3,270,122	110,268	11,391,245	14,840,216	293,771,261	61,072,588	147,038,097	100
1958	-	184,396	2,420,584	121,218	17,423,878	20,150,076	313,921,337	96,471,136	243,509,233	129
1959	89,746,993	171,036	2,285,725	84,984	26,539,977	118,828,715	432,750,052	150,472,527	393,981,760	110
1960	282,717,065	316,975	3,603,140	49,350	37,095,301	323,781,831	756,531,883	200,969,615	594,951,375	127
1961	-	314,121	3,073,861	37,100	47,920,332	51 345,414	807,877,297	273,636,456	868,587,831	93
1962	489,481,111	517,722	8,412,207	62,200	66,096,334	564,569,574	1,372,446,871	376,675,900	1,245,263,731	110
1963	12,807,587	668,339	8,435,184	52,950	76,999,225	98,963,285	1,471,410,156	450,866,484	1,696,130,215	87
1964	95,874,326	820,343	9,798,573	45,800	88,400,230	194,939,272	1,666,349,428	506,783,510	2,202,913,725	76
1965	33,740,309	1,072,699	8,731,378	38,450	102,862,540	146,445,376	1,812,794,804	594,222,732	2,797,136,457	65
1966	209,199,893	1,367,250	6,869,277	41,700	136,987,537	354,465,657	2,167,260,461	801,724,611	3,598,861,068	60
1967	510,109,742	1,891,515	6,208,936	41,400	157,607,609	675,859,202	2,843,119,663	947,214,691	4,546,075,759	63
1968	1,346,487,097	2,145,178	8,230,787	52,300	201,136,931	1,558,052,293	4,401,171,956	1,179,912,209	5,725,987,968	77
1969	111,660,685	1,923,632	8,312,607	41,650	240,090,666	362,029,240	4,763,201,196	1,443,870,472	7,169,858,440	66
1970	945,064,773	1,745,864	8,607,855	47,700	283,494,568	1,238,960,760	6,002,161,956	1,707,593,450	8,877,451,890	68
1971	96,304,522	1,891,000	7,741,997	32,300	350,042,488	456,012,307	6,458,174,263	2,135,677,078	11,013,128,968	59
1972	2,251,347,556	2,019,533	7,984,897	49,550	363,556,339	2,624,957,875	9,083,132,138	2,229,179,121	13,242,308,089	69
1973	3,082,462,611	2,391,249	8,948,816	52,650	401,126,114	3,494,981,440	12,578,113,578	2,486,864,855	15,729,172,944	80
1974	5,022,860,815	2,048,439	13,532,754	32,550	560,283,889	5,598,758,447	18,176,872,025	3,570,053,959	19,299,226,903	94
TOTAL – All States	14,829,362,815	21,557,872	139,096,207	1,313,670	3,185,541,461	18,176,872,025	18,176,872,025	19,299,226,903	19,299,226,903	94

[1] Percentage accumulated revenue of accumulated production value

NOTE: Revenue = charges and/or collection—bonuses and first year rentals adjusted from book transfer dates (years) to Geological Survey from Bureau of Land Management, to actual sales dates. Distribution of escrow funds totaling $39,316,545 to the State of Louisiana and Lessees, pursuant to Supreme Court decree dated December 31, 1965, was not deducted from calendar year 1966 revenue charges, nor was the production value of $157 million deducted. 1970 bonuses increased $951,875 and rentals increased $22,500—leases on appeal validated.

Source: U.S. Department of the Interior, U.S. Geological Survey, Outer Continental Shelf Statistics, June 1975

U.S. OUTER CONTINENTAL SHELF
REVENUE AND PRODUCTION VALUE
PERCENTAGE CUMULATIVE REVENUE OF CUMULATIVE PRODUCTION VALUE
CALENDAR YEARS

Year—All States	Bonuses	Minimum Royalties	Rentals	Shut-in Gas Payments	Royalties	Total Revenue	Total Cumulative Revenue	Total Production Value	Total Cumulative Production Value	Percent(1)
Cumulative 1953-1974	$14,829,362,765	$21,557,872	$139,096,207	$1,313,670	$3,185,541,461	$18,176,872,025	$18,176,872,025	$19,299,226,903	$19,299,226,903	94
1975	1,088,133,152	2,085,885	17,522,037	39,500	615,544,570	1,723,325,144	19,900,197,169	3,924,914,930	23,224,141,833	86
1976	2,242,898,467	2,128,336	23,370,502	38,400	699,424,790	2,967,860,495	22,868,057,664	4,402,439,996	27,626,581,829	83
1977	1,568,564,745	1,678,957	19,830,026	21,106	919,647,466	2,509,742,300	25,377,799,964	5,774,056,434	33,400,638,263	76
1978(r)	1,767,042,064	2,207,183	21,512,669	3,950	1,150,346,082	2,941,111,948	28,318,911,862	7,096,500,055	40,497,138,318	70
1979(r)	5,078,861,692	2,088,478	20,287,300	6,632	1,515,347,950	6,616,592,052	34,935,503,914	9,273,278,309	49,770,416,627	71
1980	4,204,640,257	2,291,433	19,062,498	—	2,136,663,425	6,362,657,613	41,298,161,527	13,055,515,832	62,825,932,459	65
TOTAL All States	30,779,503,142	34,038,144	260,681,239	1,423,258	10,222,515,744	41,298,161,527	41,298,161,527	62,825,932,459	62,825,932,459	66

(r) Revised

(1) Percentage accumulated revenue of accumulated production value

NOTE: Revenue = changes and/or collection-bonuses and first year rentals adjusted from book transfer dates (years) to Geological Survey from Bureau of Land Management, to actual sales dates. Distribution of escrow funds totaling $39,316,545 to the State of Louisiana and Lessees, pursuant to Supreme Court decree dated December 31, 1965, was not deducted from calendar year 1966 revenue charges, nor was the production value of $157 million deducted. 1970 bonuses increased $951,875 and rentals increased $22,500—leases on appeal validated.

Source: U.S. Department of the Interior, U.S. Geological Survey, Outer Continental Shelf Statistics, June 1981

Section XI
Table 11

U.S. OUTER CONTINENTAL SHELF OIL AND GAS SALES, TOTAL BONUS vs. TOTAL AMOUNT OF ALL BIDS RECEIVED

DATE OF SALE	STATE	TOTAL AMOUNT OF ALL BIDS RECEIVED	TOTAL BONUS	BONUS AS A % OF ALL BIDS RECEIVED
10/13/54	LA	$ 302,924,834	$ 116,378,476	38.4%
11/9/54	TEX.	73,801,896	23,357,029	31.6
TOTAL		376,726,730	139,735,505	37.1
7/12/55	TEX.	9,027,610	8,437,462	93.5
7/12/55	LA.	314,212,441	100,091,264	31.9
TOTAL		323,240,051	108,528,726	33.6
5/26/59	FLA.	1,711,872	1,711,872	0
8/11/59	LA.	174,411,628	88,035,120	50.5
TOTAL		176,123,500	89,746,992	51.0
2/24/60	TEX.	56,400,897	35,732,031	63.4
2/24/60	LA.	518,774,752	246,909,784	47.6
TOTAL		575,175,649	282,641,815	49.1
3/13/62	LA.	314,218,540	177,260,305	56.4
3/16/62	TEX.	557,720	557,720	0
3/16/62	LA.	604,799,998	267,775,677	44.3
10/9/62	LA.	66,265,290	43,887,359	66.2
TOTAL		985,841,548	489,481,061	49.7
5/14/63	CAL.	13,989,953	12,807,587	91.5
4/28/64	LA.	93,850,051	60,340,626	64.3
10/1/64	ORE.	43,049,543	27,768,772	64.5
10/1/64	WASH.	10,530,210	7,764,928	73.7
TOTAL		147,429,804	95,874,326	65.0
3/29/66	LA.	275,384,739	88,845,963	32.3
10/18/66	LA.	185,214,816	99,164,930	53.5
12/15/66	CAL.	89,937,020	21,189,000	23.6
TOTAL		550,536,575	209,199,893	38.0
6/13/67	LA.	1,627,749,269	510,079,178	31.3
2/6/68	CAL.	1,293,601,113	602,719,262	46.6
5/21/68	TEX.	1,620,393,212	593,899,046	36.7
11/19/68	LA.	398,430,736	149,868,789	37.6
TOTAL		3,312,425,061	1,346,487,097	10.5
1/14/69	LA.	71,036,938	44,037,339	62.0
12/16/69	LA.	230,460,743	66,908,196	29.0
TOTAL		301,497,681	110,945,535	36.8
7/21/70	LA.	163,451,158	97,769,013	59.8
12/15/70	LA.	2,877,429,559	846,784,660	29.4
TOTAL		3,040,880,717	944,553,673	31.1
11/4/71	LA.	172,735,981	96,304,523	55.8
9/12/72	LA.	1,599,155,464	585,827,925	36.6
12/19/72	LA.	6,191,018,227	1,665,519,631	26.9
TOTAL		7,962,909,672	2,347,652,079	29.5
6/19/73	TEX.-LA.	6,248,160,989	1,591,397,380	25.5
12/20/73	MISS., LA., FLA.	3,404,892,969	1,491,065,231	43.8
TOTAL		9,653,053,958	3,082,462,611	31.9
3/28/74	LA.	6,474,003,574	2,092,510,854	32.3
5/29/74	TEX.	3,354,292,556	1,471,851,831	43.9
7/30/74	LA.-TEX.	88,799,354	30,236,800	34.1
10/16/74	LA.	2,514,518,419	1,427,242,455	56.8
10/16/74	LA. ROYALTY	7,238,500	1,018,875	14.1
TOTAL		12,438,852,403	5,022,860,815	40.4

Source: U.S. Department of the Interior, Bureau of Land Management

U.S. OUTER CONTINENTAL SHELF OIL AND GAS SALES, TOTAL BONUS vs. TOTAL AMOUNT OF ALL BIDS RECEIVED

DATE OF SALE	STATE/AREA	TOTAL ALL BIDS RECEIVED	TOTAL BONUS	BONUS AS A % OF ALL BIDS RECEIVED
2/04/75	Texas	$ 484,721,874	$ 274,690,955	56.7%
5/28/75	La.-Tex.	402,752,335	232,916,050	57.8
7/29/75	La.-Tex.	317,001,333	163,214,006	51.5
12/11/75	S. Cal.	901,960,364	417,312,141	46.3
TOTAL		2,106,435,906	1,088,133,152	51.7
2/18/76	Fla., La., Tx.	428,003,629	175,976,493	41.1
4/13/76	Alaska	1,732,170,868	559,836,587	32.3
8/17/76	MAL(1)	3,153,411,802	1,127,936,425	35.8
11/16/76	La.-Tx.	833,015,950	379,148,962	45.5
TOTAL		6,146,602,249	2,242,898,467	36.5
6/23/77	La.-Tx.	2,928,091,214	1,170,093,432	40.0
10/27/77	Alaska	643,559,393	388,488,081	60.4
	(Royalty)	33,516,288	9,983,232	29.8
TOTAL		3,605,166,895	1,568,564,745	43.5
3/28/78	S. Al	150,927,700	100,743,443	66.7
4/25/78	La.-Tx.	1,559,345,259	733,656,893	47.0
10/31/78	Al., Fla., Ms.	87,592,568	61,176,730	69.8
12/19/78	La.-Tx.	2,355,263,307	871,464,998	37.0
TOTAL		4,153,128,834	1,767,042,064	42.5
(r)2/28/79	MAL(1)	66,005,881	40,001,631	60.6
6/29/79	Ca.	994,683,700	572,825,418	57.6
7/31/79	La.-Tx.	3,333,990,620	1,247,489,022	37.4
11/27/79	La.-Tx.	4,683,195,907	1,913,337,938	40.9
12/11/79	Ak.	945,445,102	488,691,138	51.7
12/18/79	NA(2)	1,270,789,889	816,516,546	64.3
TOTAL		11,294,111,099	5,078,861,693	45.0
9/30/80	La.	7,109,464,692	2,676,927,673	37.7
10/21/80	Ak.	197,417,470	109,751,073	10.0
11/18/80	Tx.	3,500,570,271	1,417,961,511	40.5
TOTAL		10,807,452,033	4,204,640,257	38.9

(r) Revised
(1) Middle Atlantic
(2) North Atlantic

Source: U.S. Department of the Interior, Bureau of Land Management.

STATE AND FEDERAL OCS PETROLEUM PRODUCTION 1980
(M bbls of Oil & Condensate, MMCF Gas)

Oil & Lease Condensate

U.S.A. (Total production)	3,146,519	
U.S.A. Offshore	373,974	= 12% of U.S.A.
Louisiana	284,290	
Texas	12,465	(State and Federal)
California	44,910	
Alaska	32,309	
Daily Average—1980		
U.S.A.	8,597	
U.S.A. Offshore	1,022	
Louisiana	777	
Texas	34	
California	123	
Alaska	88	

Natural Gas

U.S.A. (Total production)	20,145,000	
U.S.A. Offshore	5,366,695	= 27% of U.S.A.
Louisiana	4,422,826	
Texas	879,020	(State and Federal)
California	14,707	
Alaska	50,142	
Daily Average—1980		
U.S.A.	55,041	
U.S.A. Offshore	14,663	
Louisiana	12,084	
Texas	2,402	
California	40	
Alaska	137	

Source: Total production—U.S. Department of Energy, Monthly Energy Review
Offshore production—U.S. Geological Survey, Outer Continental Shelf Statistics

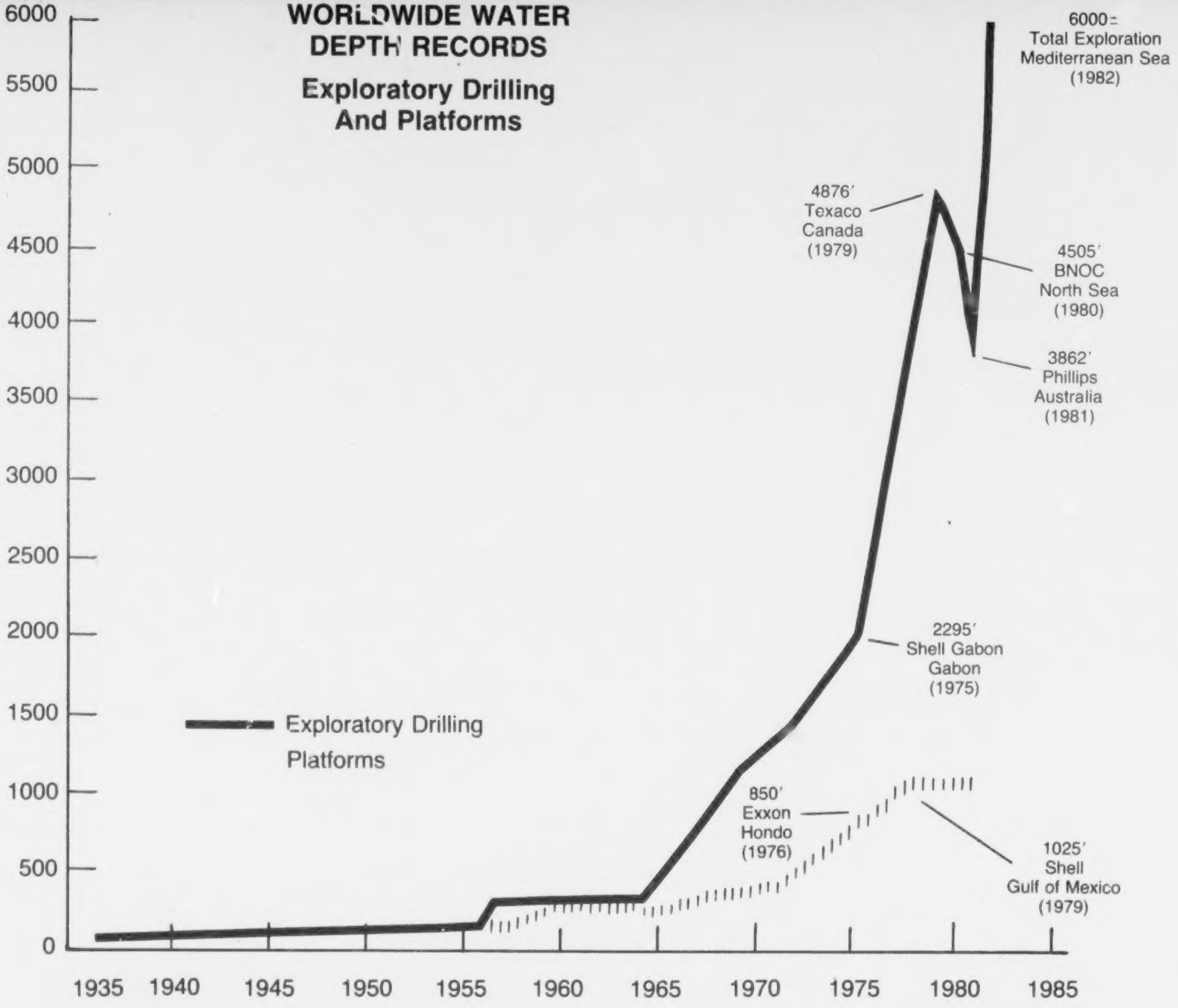
UNITED STATES OFFSHORE PLATFORMS
MULTIWELL, SINGLE WELL, AND OTHER TYPES
January 1, 1981

	Multiwell	Single	Others	Total
Louisiana	1,206	2,053	211	3,470
Texas	153	163	9	325
California	25	0	0	25
Alaska	14	0	0	14
TOTALS	1,398	2,216	220	3,834

Source: Offshore Oil Scouts, New Orleans, January 1981

WORLDWIDE WATER DEPTH RECORDS

Exploratory Drilling And Platforms



SOURCE: Offshore Magazine, June 20, 1981

January 1982

Section XI
Table 14

EIGHT-YEAR OCS BLOWOUT EXPERIENCE, 1971-78.(1)

Type	No.	Pollution	Fatalities Injuries	Other Major Damage
Explor. Drlg.	17(2)	None (gas only)		Loss of 2 jackup rigs
Dev. Drlg.	13	None (all gas)	4 minor injuries	Loss of 2 platforms
Prod./Comp./WO	16	725 bbls.(3)	None	1 platform destroyed, 1 badly damaged
Total	46			

Environmental Safety

1971-1978, 46 blowouts; 0 fatalities, 4 minor injuries; 7,553 wells, average of 1 blowout/250 wells; total spillage, less than 1000 barrels out of 2.8 billion barrels produced.

(1) From USGS Open-File Report 80-101.

(2) All in water depths < 400'; during 1975-78, 67 wells drilled in water depths > 600' with no blowouts. Blowout distribution by rig type roughly proportional to rig use in GOM. In frontier areas, 70 wells have been drilled (through 7/30/79) without a blowout.

(3) During same period, 2.8 billion barrels of oil and condensate were produced.

Source: Department of Interior News Release, March 17, 1980

OIL SPILL INCIDENTS OF 238 OR MORE BARRELS
OCS-GULF OF MEXICO

Calendar Year	Incidents	Oil Spilled	Number of Structures	Annual OCS Oil Production
1964	5	14,928 barrels	1,100	115 million barrels
1965	2	2,188 barrels	1,200	136 million barrels
1966	0	None	1,325	175 million barrels
1967	1	160,639 barrels	1,450	206 million barrels
1968	1	6,000 barrels	1,575	250 million barrels
1969	6	30,024 barrels	1,675	285 million barrels
1970	3	83,895 barrels	1,800	312 million barrels
1971	1	450 barrels	1,891	359 million barrels
1972	0	None	1,935	356 million barrels
1973	4	22,175 barrels	2,001	342 million barrels
1974	2	22,046 barrels	2,054	316 million barrels
1975	0	None	2,079	288 million barrels
1976	2	4,300 barrels	2,096	281 million barrels
1977	2	550 barrels	2,248	250 million barrels
1978	0	None	2,327	255 million barrels
1979	1	1,500 barrels	2,420	246 million barrels
1980	1	1,456 barrels	2,554	248 million barrels
Total	31	350,151 barrels	2,554	4,420 million barrels

Source: U.S. Geological Survey; Accidents connected with Federal Oil and Gas Operations on the Outer Continental Shelf, Gulf of Mexico, Addendum to Volume I, March 1981

HISTORICAL DATA ON LEASING
CONTINENTAL SEABEDS ADJACENT TO THE UNITED STATES
(THOUSANDS OF SQUARE STATUTE MILES)

Region	State Lands[1]	OCS "Shelf" (Between State Limit and 200 Meter Depth)	Continental Margin (Between 200 and 2500 Meter Depths)	Total OCS
Hawaii	—	0.4[2]	3.6	4.0
Alaska	22.9	560.0	212.2	795.1
Pacific Coast States	4.5	15.0	76.2	95.7
Gulf Coast States	13.5	121.0	84.2	218.7
Atlantic Coast States	7.1	129.1	102.5	238.7
Total	48.0	825.5	476.7	1,352.2
		559,040,000 Ac.	306,368,000 Ac.	865,408,000 Ac.

		Percent of OCS "Shelf"	Percent of Total OCS
TOTAL FEDERAL OCS ACREAGE EVER OFFERED FOR LEASE THROUGH 8/4/81	47,165,293	8.4	5.5
TOTAL FEDERAL OCS LEASED THROUGH 8/4/81	20,511,938	3.7	2.4
TOTAL FEDERAL OCS CURRENTLY UNDER LEASE 8/4/81[3]	11,400,000	2.0	1.3

---

(1) Areas within three nautical miles of coastline, except for Texas and the Gulf Coast of Florida where the boundaries are three leagues (nine nautical miles) distant.

(2) Includes state areas.

(3) Approximate acreage figure is used because of constant company relinquishments of leases—approximately 200 leases relinquished each year.

Sources: Public Land Law Review Commission
"All Sales" Statistics Compiled by Bureau of Land Management, New Orleans Office, August 1981

BASIN RANKING
5-YEAR OCS OIL AND GAS LEASING PROGRAM

Resource Potential		Interest in Exploration
Industry	Geological Survey	Industry
1. Central & West Gulf	Central & West Gulf	Central & West Gulf
2. Beaufort Sea	Chukchi	Santa Barbara
3. Santa Barbara	Beaufort	Beaufort Sea
4. Mid-Atlantic	Mid-Atlantic	Bristol Basin
5. St. George Basin	St. George Basin	North Atlantic
6. Bristol Basin	Santa Barbara	Mid-Atlantic
7. Southern California	Eastern Gulf of Alaska	Central & North California
8. North Atlantic	North Atlantic	Southern California
9. Norton Basin	Cook Inlet	St. George
10. Chukchi Sea	Southern California	Norton
11. Navarin Basin	Eastern Gulf of Mexico	Eastern Gulf
12. Central & Northern California	Bristol Bay Basin	Navarin
13. Blake Plateau	Norton	Cook Inlet
14. Hope Basin	Navarin	Hope Basin
15. Eastern Gulf of Mexico	South Atlantic	Blake Plateau
16. Cook Inlet	Northern California	Gulf of Alaska
17. Gulf of Alaska	Blake Plateau	Chukchi Sea
18. South Atlantic	Kodiak	South Atlantic
19. Kodiak	Hope	Washington-Oregon
20. Washington-Oregon	Washington-Oregon	Florida Straits
21. Southern Aleutian	Aleutian Shelf	Kodiak Shelf
22. Florida Straits	Florida Straits	South Aleutian

Source: Department of Interior; March 9, 1979; Secretarial Issue Document. 5-Year Lease Schedule.

PROPOSED 5-YEAR OCS OIL AND GAS LEASING SCHEDULE

U.S. DEPARTMENT OF THE INTERIOR **JULY 1981**

SALE AREA	Proposed Date	1982												1983												1984												1985												1986											
		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
67 Gulf of Mexico	2/82	N	S																																																									
68 S. California	4/82		G R	N	S																																																							
RS-2	6/82		P		G R	N	S																																																				
52 North Atlantic	8/82				F P		G R	N	S																																																		
71 Diapir Field	9/82	E		H		F P		G R	N	S																																																	
69 Gulf of Mexico	10/82						P		G R	N	S																																																		
57 Norton Basin	11/82		F					P		G R	N	S																																																	
73 C. & N. California	1/83				E		H			F P		G R	N	S																																													
70 St. George Basin	2/83				H				F		P		G R	N	S																																											
76 Mid Atlantic	3/83						E		H			F P		G R	N	S																																									
75 N. Aleutian Basin	4/83								E		H		F P		G R	N	S																																								
72 C. Gulf of Mexico	5/83								E		H			F P		G R	N	S																																							
78 So. Atlantic	7/83										E		H			F P		G R	N	S																																					
74 W. Gulf of Mexico	8/83								E		H			F			P		G R	N	S																																				
79 E. Gulf of Mexico	11/83								E		H			F						P		G R	N	S																																			
80 S. California	1/84					C	D		A									E		H		F P		G R	N	S																																	
82 N. Atlantic	2/84						C	D		A								E		H			F P		G R	N	S																																
83 Navarin Basin	3/84				C	D		A											E		H			F P		G R	N	S																															
81 C. Gulf of Mexico	4/84								C	D		A								E		H			F P		G R	N	S																														
87 Diapir Field	6/84										C	D		A									E		H		F P		G R	N	S																												
84 W. Gulf of Mexico	7/84								C	D		A								E		H			F			P		G R	N	S																												
88 Norton Basin	10/84														C	D		A									E		H		F P		G R	N	S																										
94 E. Gulf of Mexico	11/84								C	D		A								E		H			F							P		G R	N	S																									
89 St. George Basin	12/84																C	D		A									E		H		F P		G R	N	S																								
90 Atlantic	1/85																	C	D		A									E		H		F P		G R	N	S																							
85 Barrow Arch	2/85																		C	D		A									E		H		F P		G R	N	S																						
91 C. & N. California	3/85																			C	D		A									E		H		F P		G R	N	S																					
92 N. Aleutian Basin	4/85																				C	D		A									E		H		F P		G R	N	S																				
98 C. Gulf of Mexico	5/85																					C	D		A									E		H		F P		G R	N	S																			
86 Hope Basin	7/85																							C	D		A									E		H		F P		G R	N	S																	
102 W. Gulf of Mexico	8/85																					C	D		A									E		H		F			P		G R	N	S																
100 S. Alaska*	10/85																										C	D		A									E		H		F P		G R	N	S														
103 E. Gulf of Mexico	11/85																					C	D		A									E		H		F						P		G R	N	S													
95 S. California	1/85																													C	D		A									E		H		F P		G R	N	S											
96 Atlantic	2/86																														C	D		A									E		H		F P		G R	N	S										
107 Navarin Basin	3/86																															C	D		A									E		H		F P		G R	N	S									
104 C. Gulf of Mexico	4/86																																C	D		A									E		H		F P		G R	N	S								
97 Diapir Field	6/86																																		C	D		A									E		H		F P		G R	N	S						
105 W. Gulf of Mexico	7/86																																C	D		A									E		H		F			P		G R	N	S					
99 Norton Basin	10/86																																						C	D		A									E		H		F P		G R	N	S		
106 E. Gulf of Mexico	11/86																																C	D		A									E		H		F						P		G R	N	S	
101 St. George Basin	12/86																																								C	D		A									E		H		F P		G R	N	S

C	Call for Information	E	NEPA Document	F	NEPA Document	R	DOE Review
D	Information Due	H	Public Hearing	P	Proposed Notice of Sale	N	Notice of Sale
A	Area Identification			G	Governors' Comments Due	S	Sale

* Includes Cook Inlet, Shumagin, Kodiak, Gulf of Alaska

Source: Federal Register, Vol. 46, No. 147

BASIC PETROLEUM DATA BOOK

SECTION XII. TRANSPORTATION

Table 1. Mileage of Petroleum Pipelines in the United States

Table 2. U.S. Gas Utility Industry Miles of Pipeline and Main by Type

Table 3. U.S. Tank Ship Fleet (Actual and T2-SE-A1 Equivalents)

Table 4. World Tank Fleet (Actual and T2-SE-A1 Equivalents)

Table 5. Age Distribution of World Tanker Fleet by Major Flag of Registry

Table 6. Spills of Oil and Other Substances

Table 7. Total and Average Travel by U.S. Motor Vehicles

Table 8. Total and Average Consumption of Motor Fuel by U.S. Motor Vehicles

BEST AVAILABLE COPY

MILES OF PETROLEUM PIPELINE IN THE UNITED STATES

	1950				1953			
	Trunk Lines		Gathering Lines	Total	Trunk Lines		Gathering Lines	Total
	Crude	Products			Crude	Products		
Alabama	—	284	—	284	24	484	—	508
Alaska[1]	—	—	—	—	—	—	—	—
Arizona	—	—	—	—	—	—	—	—
Arkansas	809	254	718	1,781	778	400	774	1,952
California	3,259	1,013	1,976	6,248	3,856	1,017	2,264	7,137
Colorado	417	167	133	717	424	318	196	938
Connecticut	—	22	—	22	—	22	—	22
Delaware	—	—	—	—	—	—	—	—
Florida	—	78	—	78	—	78	—	78
Georgia	—	815	—	815	—	974	—	974
Idaho	—	—	—	—	—	492	—	492
Illinois	4,884	1,364	3,201	9,449	4,998	1,815	3,415	10,228
Indiana	2,557	711	389	3,657	2,126	871	608	3,605
Iowa	104	1,223	—	1,327	104	1,872	—	1,976
Kansas	4,018	2,092	6,265	12,375	4,515	2,698	6,329	13,542
Kentucky	211	6	786	1,003	434	10	1,007	1,451
Louisiana	2,459	544	1,627	4,630	2,872	616	1,998	5,486
Maine	76	124	—	200	151	324	—	475
Maryland & Dist. of Col.	—	77	—	77	—	77	—	77
Massachusetts	—	177	—	177	—	257	—	257
Michigan	928	129	715	1,772	998	438	903	2,339
Minnesota	—	974	—	974	283	1,098	—	1,381
Mississippi	272	166	393	831	644	332	413	1,389
Missouri	5,164	899	—	6,063	4,798	1,505	—	6,303
Montana	319	—	523	842	306	—	511	817
Nebraska	443	607	24	1,074	853	758	80	1,691
Nevada	—	—	—	—	—	—	—	—
New Hampshire	38	—	—	38	73	—	—	73
New Jersey	177	151	—	328	129	248	—	377
New Mexico	594	—	1,618	2,212	752	—	1,878	2,630
New York	230	536	480	1,246	228	536	511	1,275
North Carolina	—	111	—	111	—	138	—	138
North Dakota	—	81	—	81	28	81	64	173
Ohio	3,177	1,130	3,299	7,606	3,230	1,331	3,163	7,724
Oklahoma	8,447	1,137	9,245	18,829	7,875	1,539	11,865	21,279
Oregon	—	—	—	—	—	170	—	170
Pennsylvania	3,297	2,785	4,796	10,878	3,103	2,725	4,151	9,979
Rhode Island	—	13	—	13	—	17	—	17
South Carolina	—	102	—	102	—	204	—	204
South Dakota	—	182	—	182	—	203	—	203
Tennessee	—	109	—	109	154	109	—	263
Texas	26,409	2,625	20,149	49,183	27,868	2,742	23,841	54,451
Utah	287	—	—	287	277	277	22	576
Vermont	59	—	—	59	118	—	—	118
Virginia	—	—	—	—	—	—	—	—
Washington	—	—	—	—	—	20	—	20
West Virginia	580	7	3,660	4,247	550	7	3,371	3,928
Wisconsin	—	—	—	—	13	—	—	13
Wyoming	2,158	186	563	2,907	2,666	433	676	3,775
TOTAL	71,373	20,881	60,560	152,814	75,228	27,236	68,040	170,504

[1] Alaska not included prior to January 1, 1962.

Source: Energy Information Administration, "Crude Oil and Refined Products Pipeline Mileage in the United States," Triennial Reports

MILES OF PETROLEUM PIPELINE IN THE UNITED STATES

	1956				1959			
	Trunk Lines		Gathering Lines	Total	Trunk Lines		Gathering Lines	Total
	Crude	Products			Crude	Products		
Alabama	24	484	—	508	24	590	46	660
Alaska[1]	—	—	—	—	—	—	—	—
Arizona	—	403	—	403	368	567	—	935
Arkansas	762	662	850	2,274	616	953	942	2,511
California	4,116	1,293	2,420	7,829	4,566	1,659	2 527	8,752
Colorado	682	318	567	1,567	652	318	524	1,494
Connecticut	—	22	—	22	—	22	—	22
Delaware	—	—	—	—	—	—	—	—
Florida	—	78	—	78	—	78	—	78
Georgia	—	974	—	974	—	1,022	—	1,022
Idaho	—	571	—	571	—	571	—	571
Illinois	4,586	2,248	3,604	10,438	3,960	2,430	3,885	10,275
Indiana	2,201	1,112	790	4,103	1,691	1,636	785	4,112
Iowa	104	2,122	—	2,226	66	2,137	—	2,203
Kansas	4,395	3,522	6,848	14,765	4,304	3,493	6,965	14,762
Kentucky	434	10	1,028	1,472	304	47	1,033	1,384
Louisiana	2,732	799	2,128	5,659	2,458	1,260	2,155	5,873
Maine	151	324	—	475	152	325	—	477
Maryland & Dist. of Col.	—	77	—	77	—	77	—	77
Massachusetts	—	257	—	257	—	220	—	220
Michigan	1,582	875	996	3,453	1,378	966	1,007	3,351
Minnesota	735	1,269	—	2,004	826	1,520	—	2,346
Mississippi	694	332	470	1,496	695	498	426	1,619
Missouri	4,451	1,955	—	6,406	3,366	2,373	—	5,739
Montana	599	678	586	1,863	541	683	488	1,712
Nebraska	698	1,102	182	1,982	662	1,113	318	2,093
Nevada	—	—	—	—	—	78	—	78
New Hampshire	73	—	—	73	75	—	—	75
New Jersey	129	209	—	338	70	215	—	285
New Mexico	737	389	2,138	3,264	1,384	618	2,581	4,583
New York	278	722	548	1,548	213	772	576	1,561
North Carolina	—	216	—	216	—	216	—	216
North Dakota	195	341	208	744	220	286	321	827
Ohio	3,104	1,984	3,055	8,143	2,604	2,828	2,817	8,249
Oklahoma	7,761	2,756	12,805	23,322	5,626	2,815	13,158	21,599
Oregon	—	191	—	191	—	268	—	268
Pennsylvania	3,125	2,864	4,101	10,090	2,125	3,570	3,800	9,495
Rhode Island	—	23	—	23	—	17	—	17
South Carolina	—	204	—	204	—	204	—	204
South Dakota	—	203	—	203	—	203	—	203
Tennessee	154	109	—	263	154	109	—	263
Texas	29,642	3,726	26,018	59,386	26,569	6,576	26,667	59,812
Utah	378	307	26	711	491	311	123	925
Vermont	118	—	—	118	118	—	—	118
Virginia	—	—	—	—	—	—	—	—
Washington	64	196	—	260	64	223	—	287
West Virginia	550	7	3,192	3,749	503	34	3 095	3,632
Wisconsin	104	40	—	144	117	133	—	250
Wyoming	3,236	446	966	4,648	3,355	449	943	4,747
TOTAL	78,594	36,420	73,526	188,540	70,317	44,483	75,182	189,982

---

[1] Alaska not included prior to January 1, 1962.

Source: Energy Information Administration, "Crude Oil and Refined Products Pipeline Mileage in the United States," Triennial Reports

MILES OF PETROLEUM PIPELINE IN THE UNITED STATES

	1962				1965			
	Trunk Lines		Gathering Lines	Total	Trunk Lines		Gathering Lines	Total
	Crude	Products			Crude	Products		
Alabama	61	706	43	810	54	1,013	56	1,123
Alaska[1]	20	—	—	20	20	—	—	20
Arizona	368	576	—	944	368	576	—	944
Arkansas	623	890	969	2,482	670	898	810	2,378
California	4,254	1,929	2,428	8,611	4,070	1,871	2,580	8,521
Colorado	607	318	515	1,440	694	318	459	1,471
Connecticut	—	85	—	85	—	81	—	81
Delaware	—	—	—	—	—	3	—	3
Florida	—	112	—	112	—	112	—	112
Georgia	—	1,235	—	1,235	—	1,531	—	1,531
Idaho	—	571	—	571	—	640	—	640
Illinois	3,980	2,913	3,958	10,851	3,920	3,020	3,852	10,792
Indiana	1,643	1,741	913	4,297	1,557	1,957	912	4,426
Iowa	66	2,637	—	2,703	66	2,815	—	2,881
Kansas	3,912	4,166	6,794	14,872	4,182	4,540	6,702	15,424
Kentucky	372	47	2,269	2,688	375	47	2,147	2,569
Louisiana	2,465	1,704	2,429	6,598	2,579	1,791	2,514	6,884
Maine	152	325	—	477	152	325	—	477
Maryland & Dist. of Col.	—	77	—	77	—	249	—	249
Massachusetts	—	261	—	261	—	261	—	261
Michigan	1,638	1,214	1,124	3,976	1,748	1,539	1,194	4,481
Minnesota	826	1,668	—	2,494	1,064	1,678	—	2,742
Mississippi	761	618	405	1,784	948	825	400	2,173
Missouri	3,417	2,631	—	6,048	3,414	2,835	—	6,249
Montana	539	883	926	2,348	636	966	969	2,571
Nebraska	642	1,507	419	2,568	617	1,586	561	2,764
Nevada	—	143	—	143	—	152	—	152
New Hampshire	75	—	—	75	75	—	—	75
New Jersey	70	268	—	338	128	447	—	575
New Mexico	1,673	1,093	2,915	5,681	1,686	1,120	3,064	5,870
New York	213	786	592	1,591	238	871	520	1,629
North Carolina	—	301	—	301	—	878	—	878
North Dakota	269	417	362	1,048	704	418	438	1,560
Ohio	2,561	2,894	2,000	7,455	2,490	3,285	2,090	7,865
Oklahoma	5,738	2,767	13,029	21,534	6,402	3,427	13,956	23,785
Oregon	—	268	—	268	—	266	—	268
Pennsylvania	2,112	3,470	3,553	9,135	1,583	4,257	3,410	9,250
Rhode Island	—	17	—	17	—	17	—	17
South Carolina	—	368	—	368	—	564	—	564
South Dakota	—	205	—	205	—	421	—	421
Tennessee	154	109	—	263	154	371	—	525
Texas	26,439	9,875	26,962	63,276	27,037	10,507	25,494	63,038
Utah	491	311	135	937	583	474	278	1,335
Vermont	118	—	—	118	118	—	—	118
Virginia	—	—	—	—	—	829	—	829
Washington	64	223	—	287	64	310	—	374
West Virginia	512	7	3,124	3,643	432	7	3,237	3,676
Wisconsin	117	379	—	496	117	386	—	503
Wyoming	3,403	485	1,124	5,012	3,438	957	1,398	5,793
TOTAL	70,355	53,200	76,988	200,543	72,383	61,443	77,041	210,867

---

[1] Alaska not included prior to January 1, 1962.

Source: Energy Information Administration, "Crude Oil and Refined Products Pipeline Mileage in the United States," Triennial Reports

MILES OF PETROLEUM PIPELINE IN THE UNITED STATES

	1968				1971			
	Trunk Lines		Gathering Lines	Total	Trunk Lines		Gathering Lines	Total
	Crude	Products			Crude	Products		
Alabama	54	1,049	18	1,121	54	1,143	40	1,237
Alaska	74	—	—	74	79	8	—	87
Arizona	368	696	—	1,064	377	694	—	1,071
Arkansas	657	901	776	2,334	651	901	845	2,397
California	4,411	2,403	2,722	9,536	4,453	2,831	2,574	9,858
Colorado	691	502	546	1,739	904	498	354	1,756
Connecticut	—	91	—	91	—	92	—	92
Delaware	—	3	—	3	—	3	—	3
Florida	—	35	—	35	—	87	—	87
Georgia	—	1,567	—	1,567	—	1,728	—	1,728
Idaho	—	639	—	639	—	640	—	640
Illinois	3,886	3,101	3,720	10,707	4,156	3,444	3,496	11,096
Indiana	1,256	2,137	916	4,309	1,334	2,378	783	4,495
Iowa	66	3,103	—	3,169	42	3,847	—	3,889
Kansas	3,962	4,590	6,934	15,486	3,937	5,976	6,100	16,013
Kentucky	272	49	2,198	2,519	316	50	2,145	2,511
Louisiana	3,011	2,069	2,493	7,573	3,367	2,259	2,330	7,956
Maine	219	325	—	544	229	124	—	353
Maryland & Dist. of Col.	—	235	—	235	—	219	—	219
Massachusetts	—	239	—	239	—	242	—	242
Michigan	1,499	1,271	1,027	3,797	1,802	1,410	532	3,744
Minnesota	1,150	1,759	—	2,909	1,183	1,772	—	2,955
Mississippi	966	924	466	2,356	1,347	1,123	588	3,058
Missouri	3,413	3,021	—	6,434	3,177	3,118	—	6,295
Montana	958	967	746	2,671	1,267	1,023	764	3,054
Nebraska	617	1,916	581	3,114	640	2,313	388	3,341
Nevada	—	331	—	331	—	328	—	328
New Hampshire	109	—	—	109	108	—	—	108
New Jersey	—	545	—	545	—	549	19	568
New Mexico	1,479	1,130	3,224	5,833	1,443	1,205	3,293	5,941
New York	188	1,130	550	1,868	93	1,148	432	1,673
North Carolina	—	833	—	833	—	834	—	834
North Dakota	763	483	482	1,728	839	418	407	1,664
Ohio	1,981	3,333	1,854	7,168	1,515	3,531	1,863	6,909
Oklahoma	6,498	3,208	12,544	22,250	6,486	3,491	12,331	22,308
Oregon	—	402	—	402	—	689	—	689
Pennsylvania	1,497	4,027	3,419	8,943	1,362	4,013	2,916	8,291
Rhode Island	—	17	—	17	—	17	—	17
South Carolina	—	567	—	567	—	635	—	635
South Dakota	—	575	—	575	—	640	—	640
Tennessee	154	365	—	519	264	365	—	629
Texas	26,004	10,608	23,704	60,316	28,119	13,054	24,086	65,259
Utah	584	488	290	1,362	604	313	125	1,042
Vermont	177	—	—	177	177	—	—	177
Virginia	—	807	—	807	—	822	—	822
Washington	64	608	—	672	—	762	—	762
West Virginia	432	7	3,275	3,714	431	8	3,173	3,612
Wisconsin	130	464	—	594	476	466	—	942
Wyoming	3,235	1,009	1,639	5,883	3,911	1,185	1,548	6,644
TOTAL	70,825	64,529	74,124	209,478	75,143	72,396	71,132	218,671

Source: Energy Information Administration, "Crude Oil and Refined Products Pipeline Mileage in the United States," Triennial Reports

MILES OF PETROLEUM PIPELINE IN THE UNITED STATES

	1974				1977			
	Trunk Lines		Gathering Lines	Total	Trunk Lines		Gathering Lines	Total
	Crude	Products			Crude	Products		
Alabama	232	1,462	65	1,759	157	1,463	40	1,660
Alaska	82	19	23	124	80	90	23	193
Arizona	377	967	8	1,352	388	967	—	1,355
Arkansas	858	1,077	1,062	2,997	886	1,095	1,090	3,071
California	4,815	2,908	2,460	10,183	4,802	2,859	2,691	10,352
Colorado	907	839	434	2,180	938	968	490	2,396
Connecticut	—	92	—	92	—	94	—	94
Delaware	—	6	—	6	—	3	—	3
Florida	28	232	13	273	34	235	19	288
Georgia	—	1,886	—	1,886	—	2,024	—	2,024
Idaho	—	633	—	633	—	633	—	633
Illinois	4,279	4,159	2,967	11,405	4,099	3,917	2,898	10,914
Indiana	1,322	2,671	636	4,629	1,315	2,696	541	4,552
Iowa	59	3,892	—	3,951	42	4,539	—	4,581
Kansas	4,123	6,013	6,207	16,343[r]	3,998	6,754	6,400	17,152
Kentucky	338	108	1,880	2,326	653	99	1,692	2,444
Louisiana	3,740	2,804	2,247	8,791	3,862	2,822	2,776	9,460
Maine	229	125	—	354	228	125	—	353
Maryland & Dist of Col	—	220	—	220	—	219	—	219
Massachusetts	—	272	—	272[r]	—	242	—	242
Michigan	1,711	1,490	728	3,929	2,296	1,508	1,057	4,861
Minnesota	1,394	1,475	—	2,869[r]	1,394	1,447	—	2,841
Mississippi	1,351	1,579	459	3,389	1,329	1,496	421	3,246
Missouri	3,217	3,711	—	6,928	3,315	3,827	—	7,142
Montana	1,327	618	861	2,806	1,456	930	846	3,232
Nebraska	640	2,293	350	3,283	637	2,330	350	3,317
Nevada	—	198	—	198	—	275	—	275
New Hampshire	108	—	—	108	190	—	—	190
New Jersey	—	453	—	453[r]	—	494	—	494
New Mexico	1,456	1,183	3,288	5,927	1,647	1,698	3,615	6,960
New York	301	1,148	490	1,939	139	1,117	330	1,586
North Carolina	—	900	—	900	—	896	—	896
North Dakota	786	477	478	1,741	770	496	507	1,773
Ohio	1,529	3,581	1,855	6,965	1,275	3,738	1,511	6,524
Oklahoma	6,350	4,250	10,162	20,762[r]	6,778	4,706	9,226	20,710
Oregon	—	673	—	673	—	414	—	414
Pennsylvania	1,204	3,949	2,885	8,038	1,519	4,012	2,566	8,097
Rhode Island	—	17	—	17	—	17	—	17
South Carolina	—	669	—	669	—	668	—	668
South Dakota	—	642	—	642	—	642	—	642
Tennessee	264	443	—	707	264	475	—	739
Texas	27,490	14,026	24,794	66,310[r]	27,811	14,130	24,025	65,966
Utah	605	312	131	1,048[r]	674	306	138	1,118
Vermont	177	—	—	177	177	—	—	177
Virginia	—	834	—	834	—	824	—	824
Washington	64	696	—	760	70	713	—	783
West Virginia	451	358	3,039	3,848[r]	402	426	2,683	3,511
Wisconsin	476	466	—	942	462	464	—	926
Wyoming	3,960	1,212	1,725	6,897	3,885	1,403	1,863	7,151
TOTAL	76,250	78,038	69,247	223,535[r]	77,972	81,296	67,798	227,066

[r] Revised

Source: Energy Information Administration, "Crude Oil and Refined Products Pipeline Mileage in the United States," Triennial Reports

U.S. GAS UTILITY INDUSTRY
MILES OF PIPELINE AND MAIN, BY TYPE[1]
(Thousands)

Year	Total	Field and Gathering	Transmission Pipeline	Distribution Main
1947	242.9	27.1	88.0	127.8
1948	259.4	29.2	92.0	138.2
1949	281.5	30.9	98.3	152.3
1950	387.5	32.8	113.1	241.6
1951	406.6	34.6	119.1	252.9
1952	425.3	38.4	123.4	263.5
1953	446.4	41.5	130.4	274.5
1954	470.5	43.8	139.0	287.7
1955	496.7	45.7	145.9	305.1
1956	525.2	47.6	153.8	323.8
1957	548.8	50.0	160.1	338.7
1958	571.5	52.0	165.4	354.1
1959[2]	599.8	54.1	174.3	371.4
1960[3]	630.9	55.8	183.7	391.4
1961	659.0	56.7	191.9	410.4
1962	683.2	58.7	196.4	428.1
1963	709.9	60.7	200.9	448.3
1964	736.2	61.0	205.4	469.8
1965	767.5	61.7	211.3	494.5
1966	799.6	63.0	217.0	519.6
1967	828.3	63.7	225.4	539.2
1968	861.6	64.4	234.5	562.7
1969	891.6	64.9	248.1	578.6
1970	913.3	66.3	252.2	594.8
1971	931.4	66.2	254.8	610.4
1972	948.1	66.9	258.1	623.1
1973	962.9	65.9	263.1	633.8
1974	974.1	66.4	262.2	645.6
1975	979.3	68.5	262.6	648.2
1976	987.7	70.3	258.2	659.1
1977	998.9	71.5	260.5	666.9
1978	1,013.8	74.9	260.6	677.5

---

[1] Excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of the end of each year.

[2] These figures and those for subsequent years include Hawaii.

[3] These figures and those for subsequent years include Alaska.

Source: American Gas Association, 1978 Gas Facts

U.S. TANK SHIP FLEET (ACTUAL AND T2-SE-A1 EQUIVALENTS)
(Ocean-going vessels of 2,000 gross tons and over)

	ACTUAL FLEET				T2-SE-A1 EQUIVALENTS	
Year [1]	Number	Gross Tons	Deadweight Tons	Average Speed (knots)	Number	Percent of World Total
Jan. 1, 1947	951	8,784,894	14,035,000	13.86	800.5	62.3%
Oct. 1, 1947	744	6,995,223	11,171,400	14.07	646.4	50.8
April 1, 1948	621	5,878,786	9,395,500	14.0	541.9	42.9
Jan. 1, 1949	593	5,656,497	9,016,200	14.1	524.2	41.1
Sept. 1, 1949	578	5,439,009	8,639,800	14.4	513.2	38.0
Sept. 1, 1950	559	5,322,698	8,460,700	14.5	505.1	34.4
April 1, 1951	560	5,363,699	8,520,800	14.6	510.0	33.0
Oct. 1, 1952	550	5,284,400	8,446,400	14.6	508.3	29.4
1953	550	5,475,800	8,639,800	14.8	525.3	26.2
1954	525	5,376,500	8,440,200	15.0	521.7	23.3
1955	490	5,094,900	7,989,500	15.1	497.4	20.8
1956	477	5,040,700	7,892,700	15.2	493.4	18.9
1957	470	5,097,400	7,959,900	15.4	503.1	16.8
1958	474	5,316,100	8,309,200	15.5	529.5	15.6
1959	485	5,593,600	8,766,300	15.6	563.0	14.7
1960	478	5,664,000	8,894,600	15.7	575.0	14.1
1961	469	5,751,400	9,085,300	15.8	590.1	13.7
1962	456	5,726,900	9,045,300	15.9	589.8	13.0
1963	440	5,631,000	8,912,600	15.9	583.5	12.1
1964	422	5,553,400	8,816,300	16.0	579.3	10.6
1965	410	5,479,800	8,733,500	16.0	575.8	9.6
1966	387	5,343,700	8,549,900	16.1	566.3	8.5
1967	382	5,322,800	8,550,700	16.1	566.4	7.8
1968	380	5,337,300	8,655,700	16.1	574.6	7.0
1969	365	5,319,400	8,797,900	16.1	584.9	6.2
1970	350	5,305,800	8,911,000	16.2	593.4	5.5
1971	347	5,453,100	9,218,200	16.3	616.5	5.0
1972	328	5,411,300	9,253,300	16.4	621.0	4.3
1973	312	5,507,000	9,525,200	16.3	640.3	3.8
1974	306	5,798,068	10,236,221	16.4	689.9	3.5
1975	293	5,943,289	10,601,370	16.4	714.5	3.2
1976	290	6,357,974	11,565,138	16.4	779.3	3.2

---

[1] Figures as of December 31; other figures as of date indicated.

SOURCE: Sun Company, Analysis of World Tank Ship Fleet, 19471973.
Sun Shipbuilding and Dry Dock Company, 1974-1976.

WORLD TANK SHIP FLEET (ACTUAL AND T2-SE-A1 EQUIVALENTS)
(Ocean-going vessels of 2,000 gross tons and over)

	ACTUAL FLEET				
Year [1]	Number	Gross Tons	Deadweight Tons	Average Speed (knots)	T2-SE-A1 Equivalents
Jan. 1, 1947	1,925	15,692,962	24,278,900	12.87	1,285.1
Oct. 1, 1947	1,868	15,286,141	23,585,800	13.0	1,271.4
April 1, 1948	1,863	15,364,543	23,692,400	12.9	1,264.3
Jan. 1, 1949	1,872	15,459,372	23,815,800	12.1	1,274.4
Sept. 1, 1949	1,955	16,249,603	24,932,400	13.2	1,352.3
Sept. 1, 1950	2,056	17,567,202	26,957,200	13.3	1,469.7
April 1, 1951	2,131	18,453,538	28,255,100	13.3	1,544.1
Oct. 1, 1952	2,292	20,417,100	31,318,300	13.4	1,726.8
1953	2,502	23,473,900	35,732,300	13.6	2,003.5
1954	2,602	25,733,900	39,137,300	13.9	2,244.0
1955	2,681	27,338,600	41,623,100	14.0	2,398.1
1956	1,778	29,455,500	44,882,600	14.2	2,614.2
1957	2,954	33,046,800	50,424,800	14.4	2,988.2
1958	3,146	37,020,100	56,640,700	14.6	3,403.3
1959	3,276	40,831,500	62,657,800	14.8	3,826.1
1960	3,264	42,801,300	65,780,400	15.1	4,076.0
1961	3,250	44,701,000	68,859,400	15.2	4,304.8
1962	3,259	46,630,100	71,995,700	15.3	4,542.9
1963	3,279	49,168,600	76,179,500	15.4	4,841.3
1964	3,359	54,468,900	85,125,700	15.6	5,455.3
1965	3,436	59,158,200	93,171,900	15.7	5,984.4
1966	3,524	64,787,600	102,908,800	15.7	6,641.4
1967	3,613	69,965,500	112,366,200	15.7	7,274.6
1968	3,775	78,169,730	128,128,100	15.8	8,311.9
1969	3,893	86,821,100	146,029,100	15.8	9,461.5
1970	4,002	97,599,779	167,940,200	15.8	10,924.9
1971	4,207	111,681,295	193,891,100	15.8	12,577.0
1972	4,342	124,431,430	221,204,200	15.8	14,340.5
1973	4,572	142,413,985	256,821,730	15.8	16,634.2
1974	4,892	165,723,032	302,276,779	15.7	19,542.5
1975[r]	5,112	188,212,834	348,586,400	15.7	22,547.7
1976	5,140	203,938,871	382,533,975	15.7	24,762.9

---

[r] Revised

[1] Figures as of December 31; other figures as of date indicated.

SOURCE: Sun Company Analysis of World Tank Ship Fleet, 1947-1973.
Sun Shipbuilding and Dry Dock Company, 1974-1976.

AGE DISTRIBUTION OF WORLD TANK SHIP FLEET BY MAJOR FLAG OF REGISTRY [1]
(As of December 31, 1976)

Year of Construction	UNITED STATES		LIBERIA		UNITED KINGDOM		JAPAN		NORWAY		GREECE		FRANCE		PANAMA	
	No.	Deadweight Tons	No.	Deadweight Tons	No.	Deadweight Tons	No.	Deadweight Tons	No.	Deadweight Tons	No.	Deadweight Tons	No.	Deadweight Tons	No.	Deadweight Tons
Before 1950	95	1,968,906	4	104,902	7	132,024	6	107,012	0	0	7	67,904	0	0	22	421,948
1950	1	28,740	4	87,201	0	0	0	0	0	0	2	37,367	0	0	1	14,120
1951	2	63,982	4	81,359	0	0	2	43,100	1	16,345	4	92,325	0	0	1	16,390
1942	3	75,158	8	180,444	0	0	0	0	0	0	8	102,212	1	13,550	3	88,339
1953	12	352,338	11	266,169	0	0	0	0	1	18,270	14	278,327	1	2,695	8	192,877
1954	12	317,108	17	538,708	3	28,942	1	20,713	1	5,640	15	328,729	3	46,138	7	138,996
1955	6	184,683	23	688,006	5	100,008	0	0	2	27,770	13	280,984	4	95,473	4	82,738
1956	7	218,522	33	1,019,546	9	183,141	1	35,707	4	105,620	18	497,367	2	51,500	5	155,028
1957	10	331,529	48	1,754,259	3	203,412	4	123,237	4	81,964	17	489,397	1	19,033	10	262,606
1958	13	426,983	59	2,153,308	12	267,235	2	79,301	4	98,730	45	1,213,586	1	14,290	17	547,890
1959	15	547,858	58	2,532,069	16	327,175	5	167,021	8	165,553	20	569,717	3	78,463	20	785,867
1960	9	364,774	39	1,458,016	14	306,544	3	102,078	5	113,539	22	818,089	5	213,737	6	240,748
1961	7	309,901	27	1,222,388	15	515,100	5	194,405	8	252,737	10	348,526	5	223,073	6	246,488
1962	4	225,430	21	1,170,272	16	582,904	6	369,533	9	205,127	6	314,652	6	126,457	10	539,444
1963	5	201,523	27	1,655,119	11	464,592	8	526,016	9	399,537	8	430,981	2	87,796	5	177,704
1964	5	195,968	49	3,121,793	21	1,058,742	10	[illegible]	11	688,262	13	918,938	4	255,357	8	569,596
1965	3	121,443	53	3,272,990	16	752,348	15	1,007,360	10	572,965	17	1,202,700	7	416,654	5	208,408
1966	1	36,041	34	2,818,364	8	477,831	18	1,560,264	15	1,140,387	12	1,000,014	5	391,314	3	160,642
1967	0	0	36	2,963,096	10	657,418	23	2,097,607	29	2,210,808	3	208,692	5	247,953	3	87,426
1968	3	113,866	27	2,531,291	26	2,172,220	29	2,341,261	22	1,704,979	2	265,180	7	766,713	12	544,800
1969	9	420,703	31	4,107,366	21	3,273,249	26	2,843,888	18	1,740,613	8	1,258,317	8	823,221	11	374,353
1970	10	541,559	48	7,326,360	25	3,671,564	18	2,578,297	24	3,026,642	13	1,439,079	4	694,685	1	10,244
1971	8	473,216	68	8,416,835	28	3,611,681	29	4,069,418	29	3,212,674	7	710,845	14	2,238,035	5	327,549
1972	7	451,733	47	8,344,282	36	3,398,482	40	5,969,205	22	3,132,286	13	1,360,899	7	918,477	10	1,780,749
1973	8	777,861	60	10,365,162	37	4,416,252	56	5,935,155	27	5,341,291	13	930,738	12	1,937,670	4	107,553
1974	10	853,582	89	14,719,452	31	5,224,329	41	3,396,114	33	4,413,178	8	701,063	14	2,754,439	12	1,689,796
1975	13	790,505	108	16,828,623	32	4,476,474	42	4,445,756	38	5,081,191	7	1,352,389	10	1,313,577	6	940,485
1976	12	1,171,226	81	13,229,234	15	2,055,109	40	4,538,425	35	3,743,334	12	1,341,097	9	2,212,531	11	1,074,382
Total	**290**	**11,565,138**	**1,114**	**112,956,614**	**417**	**38,356,776**	**430**	**43,240,941**	**369**	**37,499,442**	**337**	**19,160,114**	**140**	**15,942,831**	**216**	**11,787,166**
Average Age	**13 yrs. 3 mos.**		**6 yrs. 1 mos.**		**5 yrs. 10 mos.**		**5 yrs. 4 mos.**		**5 yrs. 1 mos.**		**9 yrs. 8 mos.**		**5 yrs. 1 mo.**		**9 yrs. 5 mos.**	

---

[1] Ocean-going vessels 2,000 gross tons and over

Source: Sun Company, Analysis of World Tank Ship Fleet, 1947-1973
Sun Shipbuilding and Dry Dock Company, 1974-1976

AGE DISTRIBUTION OF WORLD TANK SHIP FLEET BY MAJOR FLAG OF REGISTRY[1]
(As of December 31, 1976)

Year of Construction	ITALY		SWEDEN		U.S.S.R.		WEST GERMANY		SPAIN		SINGAPORE		ALL OTHERS		TOTAL	
	No.	Dead-weight Tons	No.	Dead-weight Tons	No.	Dead-weight Tons	No.	Dead-weight Tons	No.	Dead-weight Tons	No.	Dead-weight Tons	No.	Dead-weight Tons	No.	Dead-weight Tons
Before 1950	12	134,404	1	12,100	8	82,058	0	0	4	38,025	0	0	44	449,914	210	3,519,197
1950	2	21,689	0	0	0	0	2	56,562	1	10,800	0	0	13	201,365	26	457,844
1951	4	44,704	0	0	0	0	0	0	0	0	3	50,805	11	165,450	32	574,460
1952	3	55,154	0	0	0	0	0	0	0	0	1	18,425	18	323,360	45	856,652
1953	7	103,440	0	0	4	46,114	0	0	1	10,600	3	54,039	13	267,915	75	1,592,784
1954	7	98,361	1	24,300	10	115,674	1	19,300	4	34,566	0	0	26	432,387	108	2,149,562
1955	6	84,696	0	0	12	122,485	0	0	0	0	2	22,225	24	494,841	101	2,183,909
1956	4	62,768	0	0	13	136,010	0	0	2	39,645	2	32,836	19	365,989	119	2,903,679
1957	6	142,291	0	0	16	154,251	0	0	0	0	3	82,244	19	347,862	141	3,992,085
1958	7	227,648	3	100,290	9	61,567	0	0	4	47,489	3	78,212	27	631,455	206	5,947,984
1959	6	162,098	2	66,465	15	157,104	2	101,320	2	28,810	1	35,228	39	1,095,337	212	6,820,085
1960	6	218,177	1	38,240	19	317,955	1	50,900	6	88,558	1	19,944	39	1,080,096	176	5,431,395
1951	7	293,812	0	0	11	152,293	1	50,640	2	43,242	0	0	27	769,309	131	4,621,914
1962	1	38,500	2	67,338	19	302,677	1	53,287	4	84,560	3	121,161	27	805,312	135	5,006,654
1963	4	220,059	0	0	20	412,240	1	48,800	2	18,620	0	0	23	981,459	125	5,624,446
1964	2	52,898	2	128,440	27	794,307	0	0	0	0	0	0	25	1,084,885	177	9,559,254
1965	4	100,139	4	148,058	26	621,557	0	0	2	59,713	2	8,080	26	1,052,864	190	9,545,279
1966	8	556,114	5	355,070	29	593,227	4	249,287	2	130,130	1	71,933	33	1,419,850	178	10,960,468
1967	3	185,852	7	457,490	19	235,356	2	195,720	5	318,585	0	0	35	1,160,081	180	11,026,084
1968	5	336,900	4	398,392	19	247,103	4	516,266	5	299,520	0	0	34	1,986,264	199	14,224,755
1969	7	293,833	7	466,711	31	345,529	1	250,000	7	429,814	1	75,573	27	1,758,207	213	18,461,377
1970	8	817,003	4	254,032	26	268,741	6	584,034	6	259,596	0	0	25	2,012,919	218	23,484,755
1971	6	771,972	6	931,750	14	102,294	6	244,809	4	414,120	1	5,339	19	1,172,248	244	26,702,785
1972	7	970,298	5	875,250	21	134,369	2	34,923	4	816,098	1	161,953	19	502,319	241	28,851,323
1973	15	1,400,263	11	1,012,708	17	125,977	3	320,875	8	570,329	4	584,259	49	3,925,631	324	37,751,724
1974	13	1,754,445	11	1,950,777	7	49,902	12	2,128,135	6	730,752	11	992,755	72	5,565,122	370	46,923,841
1975	17	1,488,219	9	1,779,578	19	673,958	8	808,535	7	1,034,316	22	1,906,007	70	6,354,809	408	49,274,422
1976	8	1,540,002	6	1,112,621	22	658,556	11	1,780,330	9	1,158,371	17	1,529,381	68	6,340,659	356	44,085,258
Total	**185**	**12,175,739**	**91**	**10,179,610**	**433**	**6,911,304**	**68**	**7,493,723**	**97**	**6,666,259**	**82**	**5,850,409**	**871**	**42,747,909**	**5,140**	**382,533,975**
Average Age	**6 yrs. 2 mos.**		**4 yrs. 6 mos.**		**10 yrs. 2 mos.**		**4 yrs. 2 mos.**		**4 yrs. 10 mos.**		**3 yrs. 5 mos.**		**6 yrs. 11 mos.**		**6 yrs. 4 mos.**	

---

[1] Ocean-going vessels 2,000 gross tons and over.

Source: Sun Company, Analysis of World Tank Ship Fleet, 1947-1973.
Sun Shipbuilding and Dry Dock Company, 1974-1976.

SOURCES OF OIL SPILLS AND OTHER SUBSTANCES
1980
(Gallons)

SOURCE	OIL				HAZARDOUS				OTHER				TOTAL			
	#	%	VOLUME	%	#	%	VOLUME	%	#	%	VOLUME	%	#	%	VOLUME	%
VESSELS																
Tank Ships	499	6.4	1,471,906	20.1	6	4.5	527	0.1	13	0.8	28,812	11.1	518	5.4	1,501,245	18.3
Tank Barges	751	9.6	1,596,079	21.8	22	16.5	33,999	5.4	28	1.7	1,767	0.7	801	8.4	1,631,845	19.9
Dry Cargo Barges	22	0.3	365	0.0	–	–	–	–	4	0.2	4,100	1.6	26	0.3	4,465	0.1
Dry Cargo Ships	269	3.4	39,211	0.5	1	0.8	5	0.0	15	0.9	630	0.2	285	3.0	38,846	0.5
Combatants	120	1.5	22,071	0.3	–	–	–	–	2	0.1	1	0.0	122	1.3	22,072	0.3
Other	1,057	13.5	174,672	2.4	3	2.3	2,010	0.3	57	3.5	927	0.4	1,117	11.7	177,609	2.2
TOTAL	2,718	34.7	3,304,304	45.1	32	24.1	36,541	5.8	119	7.4	36,237	13.9	2,869	30.0	3,377,082	41.1
LAND VEHICLES																
Rail	31	0.4	66,485	0.9	14	10.5	17,095	2.7	9	0.6	50,171	19.3	54	0.6	133,751	1.6
Highway	156	2.0	102,161	1.4	8	6.0	2,083	0.3	12	0.7	8,090	3.1	176	1.8	112,334	1.4
Other	43	0.5	3,150	0.0	–	–	–	–	4	0.2	8	0.0	47	0.5	3,158	0.0
TOTAL	230	2.9	171,796	2.2	22	16.5	19,178	3.1	25	1.6	58,269	22.4	277	2.9	249,243	3.0
NON-TRANSPORT, ON/OFFSHORE																
Refinery	76	1.0	110,054	1.5	5	3.8	33,110	5.3	6	0.4	43	0.0	87	0.9	143,207	1.7
Bulk Storage	223	2.8	362,005	4.9	3	2.3	368,510	58.9	10	0.6	9,326	3.6	236	2.5	739,841	9.0
Onshore Production	105	1.3	101,024	1.4	–	–	–	–	9	0.6	4,017	1.5	114	1.2	105,041	1.3
Offshore Production	574	7.3	115,248	1.6	–	–	–	–	28	1.7	2,113	0.8	602	6.3	117,361	1.4
Other	479	6.1	167,526	2.3	37	27.8	48,501	7.8	70	4.4	50,044	19.2	586	6.1	266,071	3.2
TOTAL	1,457	18.5	855,857	11.7	45	33.8	450,121	72.0	123	7.6	65,543	25.2	1,625	17.0	1,371,521	16.6
PIPELINES	475	6.1	1,719,420	23.4	4	3.0	46,503	7.4	10	0.6	860	0.3	489	5.1	1,766,783	21.5
MARINE FAC. ON/OFFSHORE																
Fuel Transfer	88	1.1	19,850	0.3	–	–	–	–	–	–	–	–	88	0.9	19,850	0.2
Bulk Transfer	286	3.6	759,079	10.4	10	7.5	19,370	3.1	14	0.9	298	1.1	310	3.2	781,435	9.5
Non-Bulk Transfer	36	0.5	802	0.0	1	0.8	40,000	6.4	4	0.2	398	0.2	41	0.4	41,200	0.5
Other	109	1.4	16,105	0.2	2	1.5	210	0.0	7	0.4	7,127	2.7	118	1.2	23,442	0.3
TOTAL	519	6.6	795,836	10.9	13	9.8	59,580	9.5	25	1.6	10,511	4.0	557	5.8	865,927	10.5
LAND FACILITES	110	1.4	60,773	0.8	–	–	–	–	8	0.5	4,783	1.8	118	1.2	65,556	0.8
MISC/UNKNOWN	2,328	29.7	424,713	5.8	17	12.8	13,542	2.2	1,298	80.7	84,203	32.3	3,643	38.0	522,458	6.4
GRAND TOTAL	7,837	100.0	7,332,699	100.0	133	100.0	625,465	100.0	1,608	100.0	260,406	100.0	9,578	100.0	8,218,570	100.0

SOURCE: U.S. Department of Transportation, Coast Guard, Polluting Incidents In and Around U.S. Waters, 1979 and 1980.

TOTAL AND AVERAGE TRAVEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS[1]				MOTOR TRUCKS				BUSES[2]				TOTAL MOTOR VEHICLES			
Year	Number Registered (thousands)	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Number Registered (thousands)	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Number Registered (thousands)	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Number Registered (thousands)	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1947	30,872	300,440	9,732	14.95	6,650	66,203	9,955	9.14	176	4,251	24,153	5.46	37,698	370,894	9,839	13.19
1948	33,394	319,665	9,573	14.96	7,379	74,009	10,030	9.04	184	4,283	23,277	5.49	40,957	397,957	9,716	13.11
1949[3]	36,453	342,478	9,395	14.92	8,028	77,731	9,682	8.97	209	4,252	20,344	5.98	44,690	424,461	9,498	13.12
1950[3]	40,334	363,613	9,015	14.40	8,604	90,552	10,524	9.51	224	4,081	18,219	5.22	49,162	458,246	9,321	12.89
1951[3]	42,682	392,131	9,187	14.54	9,001	94,844	10,537	9.31	230	4,118	17,90[illegible]	4.92	51,913	491,093	9,460	12.92
1952[3]	43,818	410,187	9,361	14.27	9,207	99,060	10,759	9.13	240	4,334	18,058	4.87	53,265	513,581	9,642	12.69
1953[3]	46,460	435,351	9,370	14.39	9,576	104,633	10,927	9.17	244	4,449	18,234	4.75	56,280	544,433	9,674	12.78
1954	48,413	450,605	9,308	14.57	9,726	105,844	10,833	8.44	233	4,408	18,918	5.84	58,372	560,857	9,608	12.69
1955	52,092	487,540	9,359	14.53	10,413	111,387	10,697	8.37	255	4,507	17,675	5.85	62,760	603,434	9,615	12.67
1956	54,249	507,138	9,348	14.36	10,737	116,100	10,813	8.31	255	4,605	18,059	5.74	65,241	627,843	9,623	12.53
1957	56,375	529,405	9,391	14.40	10,961	113,206	10,328	7.93	264	4,393	16,640	5.32	67,600	647,004	9,571	12.47
1958	57,392	544,873	9,494	14.30	11,159	115,470	10,348	7.96	270	4,310	15,963	5.33	68,821	664,653	9,658	12.44
1959[4]	60,132	572,976	9,529	14.30	11,671	123,154	10,552	7.97	265	4,348	16,408	5.28	72,068	700,478	9,720	12.43
1960	62,258	588,083	9,446	14.28	11,945	126,409	10,583	7.96	272	4,353	16,004	5.26	74,475	718,845	9,652	12.42
1961	63,870	604,557	9,465	14.38	12,291	128,582	10,461	7.82	281	4,396	15,644	5.30	76,442	737,535	9,648	12.44
1962	66,638	629,097	9,441	14.37	12,809	133,289	10,406	7.80	288	4,466	15,507	5.34	79,735	766,852	9,618	12.43
1963	69,842	645,371	9,240	14.26	13,360	155,569	11,644	8.44	298	4,483	15,044	5.35	83,500	805,423	9,646	12.48
1964	72,969	677,613	9,286	14.25	14,013	164,271	11,723	8.43	305	4,616	15,134	5.34	87,287	846,500	9,698	12.47
1965	76,634	711,594	9,286	14.15	14,795	171,436	11,587	8.60	314	4,782	15,229	5.35	91,743	887,812	9,677	12.49
1966	80,106	751,740	9,384	14.10	15,517	173,905	11,207	8.52	324	4,852	14,975	5.46	95,947	930,497	9,698	12.47
1967	82,367	774,203	9,399	14.05	16,193	182,456	11,268	8.42	338	4,894	14,479	5.38	98,898	961,553	9,723	12.38
1968	85,793	814,030	9,488	13.91	16,995	196,651	11,571	8.37	352	4,968	14,114	5.33	103,140	1,015,649	9,847	12.25
1969	89,156	858,858	9,633	13.75	17,871	206,680	11,565	8.36	364	5,037	13,838	5.32	107,391	1,070,575	9,969	12.15
1970	92,095	900,992	9,783	13.70	18,748	214,670	11,450	8.39	379	5,043	13,306	5.34	111,222	1,120,705	10,076	12.14
1971	96,144	954,155	9,924	13.73	19,802	227,037	11,465	8.38	398	5,097	12,807	5.38	116,344	1,186,289	10,196	12.16
1972	100,658	1,003,498	9,969	13.67	21,239	259,735	12,229	8.46	407	5,109	12,553	5.80	122,304	1,268,342	10,370	12.07
1973	106,119	1,036,455	9,767	13.29	23,233	267,147	11,499	8.45	426	4,960	11,643	5.86	129,778	1,308,562	10,083	11.85
1974[r]	109,823	1,013,068	9,225	13.65	24,630	267,519	10,861	8.57	447	5,060	11,320	5.90	134,900	1,285,647	9,530	12.09

r/ Revised

1/ Travel by motorcycles included with passenger cars

2/ Includes commercial school and non-revenue buses

3/ Total and average consumption calculated by the American Petroleum Institute for the years 1949-1953; Bureau of Public Roads data not available

4/ Includes Alaska and Hawaii beginning in 1959

Source: Bureau of Public Roads, "Estimated Motor-Vehicle Travel in the United States and Related Data," Federal Highway Administration after 1969. American Petroleum Institute

April 1977

TOTAL AND AVERAGE TRAVEL BY U.S MOTOR VEHICLES

	PASSENGER CARS[1]				MOTOR TRUCKS				BUSES[2]				TOTAL MOTOR VEHICLES			
Year	Number Registered (thousands)	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Number Registered (thousands)	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Number Registered (thousands)	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon	Number Registered (thousands)	Total Vehicle Miles Traveled (millions)	Average Travel Per Vehicle (miles)	Average Miles Traveled Per Gallon
1975	111,679	1,050,472	9,406	13.74	25,776	274,454	10,648	8.68	462	5,148	11,140	5.75	137,917	1,330,074	9,644	12.20
1976	115,170	1,098,147	9,535	13.93	27,779	307,957	11,086	8.58	478	5,761	12,045	5.98	143,427	1,411,899	9,844	12.20
1977	118,711	1,141,166	9,613	14.15	29,562	329,474	11,145	8.68	492	5,887	11,973	5.98	148,765	1,476,640	9,926	12.34
1978	121,717	1,194,287	9,812	14.26	31,703	347,909	10,974	8.64	500	6,072	12,143	5.95	153,920	1,548,281	10,059	12.38
1979	125,750	1,162,528	9,245	14.49	33,3[illegible]0	360,500	10,810	8.82	520	6,105	11,732	5.97	159,621	1,529,133	9,580	12.52

[1] Travel by motorcycles included with passenger cars

[2] Includes commercial school and non-revenue buses

Source: Bureau of Public Roads, "Estimated Motor-Vehicle Travel in the United States and Related Data," Federal Highway Administration after 1969.

TOTAL AND AVERAGE CONSUMPTION OF MOTOR FUEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS[1]			MOTOR TRUCKS			BUSES[2]			TOTAL MOTOR VEHICLES		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1947	30.872	20.086	651	6.650	7.243	1.089	176	778	4.420	37.698	28.107	746
1948	33.394	21.369	640	7.379	8.189	1.110	184	780	4.239	40.957	30.338	741
1949[3]	36.453	22.957	630	8.028	8.666	1.079	209	711	3.402	44.690	32.334	724
1950[3]	40.334	25.238	[illegible]	8.604	9.526	1.107	224	782	3.491	49.162	35.546	723
1951[3]	42.682	26.990	632	9.001	10.188	1.132	230	836	3.635	51.913	38.014	732
1952[3]	43.818	28.729	656	9.207	10.844	1.178	240	890	3.708	53.265	40.463	760
1953[3]	46.460	30.249	654	9.576	11.418	1.192	244	937	3.840	56.280	42.604	757
1954	48.413	30.915	639	9.726	12.541	1.289	233	755	3.240	58.372	44.211	757
1955	52.092	33.548	644	10.413	13.308	1.278	255	771	3.024	62.760	47.627	759
1956	54.249	35.326	651	10.737	13.978	1.302	255	802	3.145	65.241	50.106	768
1957	56.375	36.769	652	10.961	14.271	1.302	264	825	3.125	67.600	51.865	767
1958	57.392	38.095	644	11.159	14.514	1.301	270	809	2.996	68.821	53.418	776
1959[4]	60.132	40.056	666	11.671	15.453	1.324	265	823	3.106	72.068	56.332	782
1960	62.258	41.169	661	11.945	15.882	1.330	272	827	3.040	74.475	57.878	777
1961	63.870	42.033	658	12.291	16.443	1.338	281	830	2.954	76.442	59.306	776
1962	66.638	43.771	657	12.809	17.089	1.334	288	837	2.906	79.735	61.697	774
1963	69.842	45.246	648	13.360	18.432	1.380	298	838	2.812	83.500	64.516	773
1964	72.969	47.567	652	14.013	19.470	1.389	305	864	2.833	87.287	67.901	778
1965	76.634	50.275	656	14.795	19.935	1.347	314	894	2.847	91.743	71.104	775
1966	80.106	53.312	666	15.517	20.415	1.316	324	896	2.765	95.947	74.623	778
1967	82.367	55.110	669	16.193	21.673	1.338	338	910	2.692	98.898	77.693	786
1968	85.793	58.524	682	16.995	23.482	1.382	352	932	2.648	103.140	82.938	804
1969	89.156	62.448	700	17.871	24.727	1.384	364	947	2.602	107.391	88.122	821
1970	92.095	65.784	714	18.748	25.600	1.365	379	944	2.491	111.222	92.328	830
1971	96.144	69.514	723	19.802	27.086	1.368	397	947	2.385	116.343	97.547	838
1972	100.658	73.463	730	[illegible]1.239	30.718	1.446	407	881	2.165	122.304	105.062	859
1973	106.119	78.011	735	23.233	31.615	1.361	426	847	1.988	129.778	110.473	851
1974[r]	109.823	74.217	676	24.630	31.226	1.268	447	858	1.919	134.900	106.301	788

r/ Revised
1/ Travel by motorcycles included in with passenger cars
2/ Includes commercial, school and non-revenue buses
3/ Total and average consumption calculated by the American Petroleum Institute for the years 1949-1953; Bureau of Public Roads data not available
4/ Includes Alaska and Hawaii beginning in 1959

Source: Bureau of Public Roads, "Estimated Motor-Vehicle Travel in the United States and Related Data," Federal Highway Administration after 1969
American Petroleum Institute

Section XII
Table 8

April 1977

TOTAL AND AVERAGE CONSUMPTION OF MOTOR FUEL BY U.S. MOTOR VEHICLES

	PASSENGER CARS(1)			MOTOR TRUCKS			BUSES(2)			TOTAL MOTOR VEHICLES		
Year	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)	Number Registered (thousands)	Motor Fuel Consumption (million gallons)	Average Consumption Per Vehicle (gallons)
1975	111,679	76,457	685	25,776	31,632	1,227	462	895	1,937	137,917	108,984	790
1976	115,170	78,847	685	27,779	35,890	1,292	478	964	2,015	143,427	115,700	807
1977	118,711	80,677	680	29,562	37,964	1,284	492	984	2,002	148,765	119,625	804
1978	121,717	83,775	688	31,703	40,271	1,270	500	1,021	2,041	153,920	125,067	813
1979	125,750	80,233	638	33,350	40,859	1,225	520	1,023	1,966	159,621	122,115	765

(1) Travel by motorcycles included in with passenger cars
(2) Includes commercial, school and non-revenue buses

Source: Bureau of Public Roads, "Estimated Motor-Vehicle Travel in the United States and Related Data," Federal Highway Administration after 1969.

SECTION XIII. NATURAL GAS

Table 1. Estimated Proved World Reserves of Natural Gas

Table 2. The Declining Supply of United States Natural Gas

Table 3. World Marketed Production of Natural Gas by Areas

Table 4. World Marketed Production of Natural Gas by Areas

Table 5. Salient Statistics of Natural Gas in the U.S.

Table 6. U.S. Imports of Natural Gas by Source

Table 7. Estimated Natural Gas Reserves — Twenty Leading Nations

Table 8. World Natural Gas Production — Twenty Leading Nations

Table 9. U.S. Marketed Production of Natural Gas by State

Table 10. U.S. Consumption of Natural Gas by State

BEST AVAILABLE COPY

ESTIMATED PROVED WORLD RESERVES OF NATURAL GAS
ANNUALLY AS OF JANUARY 1
(Billions of cubic feet)

	WESTERN HEMISPHERE												
Year	United States	Canada	Latin America	Western Hemisphere Total	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations	Total World	U.S. as a % of Total World	Year
1967	289,333	43,450	64,550	397,333	215,070	158,155	32,450	88,582	891,590	150,000	1,041,590	27.8%	1967
1968	292,908	45,682	67,101	405,691	220,670	167,223	40,050	133,965	967,599	215,500	1,183,099	24.8	1968
1969	287,350	47,666	62,900	397,916	223,775	168,345	52,724	141,176	983,936	343,000	1,326,936	21.7	1969
1970	275,109	51,951	163,150	490,210	235,275	197,143	67,500	150,800	1,140,928	350,000	1,490,928	18.5	1970
1971	290,746(1)	53,376	73,100	417,222	354,262	191,516	56,330	147,731	1,167,061	440,000	1,607,061	18.1	1971
1972	278,806(1)	55,462	72,700	406,968	343,930	193,018	69,800	163,250	1,176,966	558,000	1,734,966	16.1	1972
1973	266,085(1)	52,936	79,218	398,239	344,150	189,015	101,236	178,400	1,211,040	664,400	1,875,440	14.2	1973
1974	249,950(1)	52,457	91,321	393,728	413,325	187,720	114,200	193,797	1,302,770	735,400	2,038,170	12.3	1974
1975	237,132(1)	56,708	100,214	394,054	672,670	314,974	115,880	202,826	1,700,404	846,000	2,546,404	9.3	1975
1976	228,200(1)	56,975	90,487	375,662	538,648	207,152	111,560	180,875	1,413,897	835,000	2,248,897	10.1	1976
1977	216,026(1)	58,282	90,325	364,633	536,460	209,077	120,010	141,905	1,372,085	953,000	2,325,085	9.2	1977
1978	208,878(1)	59,472	108,480	376,830	719,660	207,504	122,725	138,190	1,564,909	955,000	2,519,909	8.3	1978
1979	200,302(1)	59,000	112,950	372,252	730,660	186,290	119,850	143,260	1,552,312	945,000	2,497,312	8.0	1979
1980	194,917(1)	85,500	144,500	424,917	740,330	210,350	128,815	135,376	1,639,158	935,000	2,574,158	7.6	1980
1981	191,000(1)	87,300	159,811	438,111	752,415	208,470	126,290	159,315	1,684,601	953,900	2,638,501	7.2	1981

---

(1) Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska (discovered in 1968) for which transportation facilities are not yet available

Source: 1967-1980: United States—American Gas Association, Committee on Natural Gas Reserves
Rest of the World—The Oil & Gas Journal "Worldwide Report" issues.
1981: Oil & Gas Journal "Worldwide Report" issues.

THE DECLINING SUPPLY OF UNITED STATES NATURAL GAS

(Millions of cubic feet — 14.72 psia at 60°F.)

Year	Proved Reserves at Start of Year		Reserve Revisions, Extensions and Discoveries During Year	Net Change in Underground Storage[7]	Production During Year[1]	Proved Reserves at Year-end		Net Change in Reserves During Year	Indicated Years Supply of Year-end Proved Reserves		Year
1947	159,703,813		10,921,187	N.A.	5,559,235	165,025,765		5,321,952	29.7		1947
1948	165,025,765		13,823,090	51,202	5,975,001	172,925,056		7,899,291	28.9		1948
1949	172,925,056		12,605,615	82,146	6,211,124	179,401,693		6,476,637	28.9		1949
1950	179,401,693		11,985,361	52,935	6,855,244	184,584,745		5,183,052	26.9		1950
1951	184,584,745		15,965,808	132,030	7,923,673	192,785,910		8,201,165	24.3		1951
1952	192,758,910		14,267,606	197,766	8,592,716	198,631,566		5,845,656	23.1		1952
1953	198,631,566		20,341,933	513,529[2]	9,188,365	210,298,763		11,667,197	22.9		1953
1954	210,298,763		9,547,074	90,408	9,375,314	210,560,931		262,168	22.5		1954
1955	210,560,931		21,897,616	87,164	10,063,167	222,482,544		11,921,613	22.1		1955
1956	222,482,544		24,716,115	133,241	10,848,685	236,483,215		14,000,671	21.8		1956
1957	236,483,215		20,008,051	178,761	11,439,890	245,230,137		8,746,922	21.4		1957
1958	245,230,137		18,896,724	57,582	11,422,651	252,761,792		7,531,655	22.1		1958
1959	252,761,792		20,621,249	160,453	12,373,063	261,170,431		8,408,639	21.1		1959
1960	261,170,431		13,893,978	281,273	13,019,356	262,326,326		1,155,895	20.1		1960
1961	262,326,326		17,166,421	159,544	13,378,649	266,273,642		3,947,316	19.9		1961
1962	266,273,642		19,483,958	159,231	13,637,973	272,278,858		6,005,216	20.0		1962
1963	272,278,858		18,164,667	253,733	14,546,025	276,151,233		3,872,375	19.0		1963
1964	276,151,233		20,252,139	195,110	15,347,028	281,251,454		5,100,221	18.3		1964
1965	281,251,454		21,319,279	150,483	16,252,293	286,468,923		5,217,469	17.6		1965
1966	286,468,923		20,220,432	134,523	17,491,073	289,332,805		2,863,882	16.5		1966
1967	289,332,805		21,804,333	151,403	18,380,838	292,907,703		3,574,898	15.9		1967
1968	292,907,703		13,697,008	118,568	19,373,427	287,349,852		−5,557,851	14.8		1968
1969	287,349,852		8,375,004	107,169	20,723,190	275,108,835		−12,241,017	13.3		1969
1970	275,108,835		11,196,359[5]	402,018	21,960,804	264,746,408[3]	290,746,408[4]	−10,362,427[6]	12.1[3]	13.2[4]	1970
1971	264,746,408[3]	290,746,408[4]	9,825,421	310,301	22,076,512	252,805,618[3]	278,805,618[4]	−11,940,790	11.5[3]	12.6[4]	1971
1972	252,805,618[3]	278,805,618[4]	9,634,563	156,563	22,511,898	240,084,846[3]	266,084,846[4]	−12,720,772	10.7[3]	11.8[4]	1972
1973	240,084,846[3]	266,084,846[4]	6,825,049	−354,282	22,605,406	223,950,207[3]	249,950,207[4]	−16,134,639	9.9[3]	11.1[4]	1973
1974	223,950,207[3]	249,950,207[4]	8,679,184	−178,424	21,318,470	211,132,497[3]	237,132,497[4]	−12,817,710	9.9[3]	11.1[4]	1974

N.A. Not Available

[1] Estimated

[2] All native gas in storage reservoirs formerly classified as proved reserves of natural gas is included in this figure.

[3] Figures exclude 26 trillion cubic feet in Prudhoe Bay, Alaska (discovered in 1968) which are not yet available for market due to the lack of transportation facilities.

[4] Figures include 26 trillion cubic feet in Prudhoe Bay, Alaska.

[5] Figure excludes 26 trillion cubic feet in Prudhoe Bay, Alaska. When Prudhoe Bay is included, figure is 37,196,359 MMCF.

[6] Figure excludes 26 trillion cubic feet in Prudhoe Bay, Alaska. When Prudhoe Bay is included, figure is +15,637,573 MMCF.

[7] The net difference between gas stored in and gas withdrawn from underground storage reservoirs, inclusive of adjustments and native gas transferred from other reserve categories. (Adjustments include change of reporting basis starting in 1973 to report only gas reserves considered recoverable, in effect, reducing gas reserves by 1,024,140 MMCF that would have been reported since 1972 using former basis.)

Source: American Gas Association, Committee on Natural Gas Reserves.

July 1976

Section XIII
Table 2

THE DECLINING RESERVES OF UNITED STATES NATURAL GAS
(Millions of cubic feet—14.72 psia at 60°F.)

Year	Proved Reserves at Start of Year		Reserve Revisions, Extensions and Discoveries During Year	Net Change in Underground Storage(7)	Production During Year(1)	Proved Reserves at Year-end		Net Change in Reserves During Year	Indicated Years Supply of Year-end Proved Reserves		Year
1975	211,132,497(3)	237,132,497(2)	10,483,688	302,561	19,718,570	202,200,176(3)	228,200,176(4)	− 8,932,321	10.2(3)	11.6(4)	1975
1976	202,200,176(3)	228,200,176(3)	7,555,468	−187,550	19,542,020	190,026,074(3)	216,026,047(4)	−12,174,102	9.7(3)	11.1(4)	1976
1977	190,026,074(3)	216,026,074(4)	11,851,924	446,930	19,447,050	182,877,878(3)	208,877,878(4)	− 7,148,196	9.4(3)	10.7(4)	1977
1978	182,877,878(3)	208,877,878(4)	10,586,144	148,733	19,311,048	174,301,707(3)	200,301,707(4)	− 8,576,171	9.0(3)	10.4(4)	1978
1979	174,301,707(3)	200,301,707(4)	14,285,947	239,323	19,910,353	168,916,624(3)	194,916,624(4)	− 5,385,083	8.5(3)	9.8(4)	1979

(1) Estimated

(3) Figures exclude 26 trillion cubic feet in Prudhoe Bay, Alaska (discovered in 1968) which are not yet available for market due to the lack of transportation facilities.

(4) Figures include 26 trilliion cubic feet in Prudhoe Bay, Alaska.

(7) The net difference between gas stored in and gas withdrawn from underground storage reservoirs, inclusive of adjustments and native gas transferred from other reserve categories. (Adjustments include change of reporting basis starting in 1973 to report only gas reserves considered recoverable, in effect, reducing gas reserves by 1,024,140 MMCF that would have been reported since 1972 using former basis.)

Source: American Gas Association, Committee on Natural Gas Reserves.

WORLD MARKETED PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

	WESTERN HEMISPHERE													
Year	United States	Canada	Latin America	Western Hemisphere Total	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations	Total World	U.S. as a % of Free World Total	U.S. as a % of World Total	Year
1950	6,282,060	71,692	260,008	6,615,760	0	0	55,420	33,177	6,702,357	N.A.	6,702,357	93.7%	93.7%	1950
1951	7,457,359	83,970	201,379	7,742,708	0	0	72,699	52,024	7,867,431	255,268	8,122,669	94.8	91.8	1951
1952	8,013,457	93,710	223,510	8,330,677	0	0	85,164	61,938	8,477,779	305,390	8,783,169	94.5	91.2	1952
1953	8,396,916	106,735	255,044	8,758,695	0	149	99,644	100,353	8,958,841	503,559	9,462,400	93.7	88.7	1953
1954	8,742,546	127,597	273,108	9,143,251	0	299	106,286	131,254	9,381,090	538,340	9,919,430	93.2	88.1	1954
1955	9,405,351	150,772	356,150	9,912,273	4	456	82,348	189,805	10,184,886	524,883	10,709,769	92.3	87.8	1955
1956	10,081,923	169,153	368,171	10,619,247	15,552	496	101,762	227,530	10,964,587	656,917	11,621,504	91.9	86.8	1956
1957	10,680,258	220,007	458,629	11,358,894	25,578	351	114,243	251,798	11,750,864	926,155	12,677,019	90.0	84.2	1957
1958	11,030,298	337,804	616,117	11,984,219	26,288	4,385	119,716	267,450	12,402,058	1,379,668	13,781,726	88.9	80.0	1958
1959	12,046,115	417,335	713,974	13,177,424	44,520	14,423	133,309	346,906	13,716,582	1,688,023	15,404,605	87.8	78.2	1959
1960	12,771,038	522,972	775,931	14,069,941	57,265	5,831	157,846	433,794	14,724,677	2,191,932	16,916,609	86.7	75.5	1960
1961	13,254,025	655,738	864,075	14,773,838	172,065	20,405	170,671	502,222	15,639,201	2,748,402	18,387,603	84.7	72.1	1961
1962	13,876,622	946,703	956,436	15,779,761	173,312	31,327	193,565	548,419	16,726,384	3,366,025	20,092,409	83.0	69.1	1962
1963	14,666,559	1,111,478	702,457	16,480,494	143,155	15,956	135,181	559,969	17,340,755	3,678,193	21,018,948	84.6	69.8	1963
1964	15,462,143	1,327,664	721,596	17,511,403	162,593	33,198	155,293	608,872	18,471,359	4,397,094	22,868,453	83.7	67.6	1964
1965	16,039,753	1,442,448	779,949	18,262,150	171,219	67,883	168,306	671,057	19,340,595	5,139,565	24,480,160	82.9	65.5	1965
1966	17,206,628	1,341,833	828,773	19,377,234	193,147	82,133	198,289	789,916	20,640,719	5,753,512	26,394,231	83.4	65.2	1966
1967	18,171,325	1,471,725	883,481	20,526,531	229,334	84,968	215,309	1,018,634	22,074,776	6,322,996	28,397,772	82.3	64.0	1967
1968	19,322,400	1,692,301	1,061,610	22,076,311	388,206	96,460	330,258	1,439,050	24,330,287	7,072,855	31,403,142	79.4	61.5	1968
1969	20,698,240	1,977,838	1,143,290	23,819,368	441,702	113,802	431,095	2,009,701	26,815,668	7,569,402	34,385,070	77.2	60.2	1969
1970	21,920,642	2,277,109	1,276,624	25,474,375	454,125	122,242	525,255	2,789,046	29,365,043	8,728,918	38,093,961	74.6	57.5	1970
1971[r]	22,493,012	2,499,024	1,362,648	26,354,684	697,997	522,631	559,808	3,580,676	31,715,796	9,472,600	41,188,396	70.9	54.6	1971[r]
1972[r]	22,531,698	2,913,537	1,456,611	26,901,846	905,622	471,835	605,962	4,501,119	33,386,384	10,127,500	43,513,884	67.5	51.8	1972[r]
1973[r]	22,647,549	3,119,461	1,615,801	27,382,811	1,276,853	585,820	775,942	5,147,966	35,169,412	10,958,376	46,127,788	64.4	49.1	1973[r]
1974[r]	21,600,522	3,045,506	1,659,071	26,305,099	1,423,416	607,732	880,914	5,837,027	35,054,188	12,117,303	47,171,491	61.6	45.8	1974[r]

[r] Revised
N.A. Not Available

Source: 1950-1967: U.S. Bureau of Mines, Minerals Yearbook, Annual
1968: U.S. Bureau of Mines, World Natural Gas: 1972
1969-1970: U.S. Bureau of Mines, World Natural Gas: 1973
1971-1974: U.S. Bureau of Mines, World Natural Gas: 1975

WORLD MARKETED PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet)

	WESTERN HEMISPHERE													
Year	United States	Canada	Latin America	Western Hemisphere Total	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations	Total World	U.S. as a % of Free World Total	U.S. as a % of World Total	Year
1975	20,108,661	3,075,693	1,735,060	24,919,414	1,436,210	670,402	938,365	5,966,659	33,931,050	13,276,275	47,207,325	59.3%	42.6%	1975
1976	19,952,438	3,067,353	1,722,106	24,741,897	1,492,772	905,792	1,173,878	6,343,593	34,657,932	14,801,281	49,459,213	57.6	40.3	1976
1977	20,025,463	3,230,672	1,865,734	25,121,869	1,506,982	919,464	1,329,016	6,502,502	35,379,833	14,720,257	50,100,090	56.6	40.0	1977
1978	19,974,033	3,128,056	2,012,912	25,115,001	1,579,478	1,117,416	1,469,154	6,649,855	35,930,904	15,818,398	51,749,302	55.6	38.6	1978
1979$^{(r)}$	20,471,260	3,646,500	2,610,000	26,727,760	1,624,700	1,027,900	1,827,900	6,866,800	38,075,060	19,591,400	57,666,460	53.8	35.5	1979$^{(r)}$
1980$^{(p)}$	20,090,000	2,668,300	3,297,500	26,055,800	1,221,300	884,700	2,558,400	6,668,700	37,388,900	21,069,900	58,458,800	53.7	34.4	1980$^{(p)}$

$^{(r)}$ Revised

$^{(p)}$ Preliminary

Source: 1975-78: U.S. Energy Information Administration, World Natural Gas, Annuals.
1979-1980: U.S. Energy Information Administration, United States only; Rest of World, Oil and Gas Journal.

WORLD MARKETED PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet per day)

Year	WESTERN HEMISPHERE United States	 Canada	 Latin America	 Western Hemisphere Total	Middle East	Africa	Asia	Western Europe	Total Free World	Communist Nations	Total World	U.S. as a % of Free World Total	U.S. as a % of World Total	Year
1950	17,211	197	712	18,120	0	0	152	91	18,363	N.A.	18,363	93.7%	93.7%	1950
1951	20,431	230	552	21,213	0	0	199	143	21,555	699	22,254	94.8	91.8	1951
1952	21,895	256	611	22,762	0	0	233	169	23,164	834	23,998	94.4	91.2	1952
1953	23,005	292	699	23,996	0	—[1]	273	275	24,544	1,380	25,924	93.7	88.7	1953
1954	23,952	350	748	25,050	0	1	291	360	25,702	1,475	27,177	93.2	88.1	1954
1955	25,768	413	976	27,157	0	1	226	520	27,904	1,438	29,342	92.3	87.8	1955
1956	27,546	462	1,006	29,014	43	1	278	622	29,958	1,795	31,753	91.9	86.8	1956
1957	29,261	603	1,256	31,120	70	1	313	690	32,194	2,537	34,731	90.9	84.3	1957
1958	30,220	925	1,688	32,833	72	12	328	733	33,978	3,780	37,758	88.9	80.0	1958
1959	33,003	1,142	1,956	36,101	122	40	365	950	37,578	4,625	42,203	87.8	78.2	1959
1960	34,894	1,429	2,121	38,444	156	16	431	1,185	40,232	5,989	46,221	86.7	75.5	1960
1961	36,312	1,797	2,367	40,476	471	56	468	1,376	42,847	7,530	50,377	84.7	72.1	1961
1962	38,018	2,594	2,620	43,232	475	86	530	1,503	45,826	9,222	55,048	83.0	69.1	1962
1963	40,182	3,045	1,925	45,152	409	44	370	1,534	47,509	10,077	57,586	84.6	69.8	1963
1964	42,246	3,627	1,972	47,845	444	91	424	1,664	50,468	12,014	62,482	83.7	67.7	1964
1965	43,945	3,952	2,136	50,033	469	185	461	1,839	52,987	14,081	67,068	82.9	65.5	1965
1966	47,141	3,676	2,271	53,088	529	225	543	2,164	56,549	15,763	72,312	83.4	65.2	1966
1967	49,785	4,032	2,420	56,237	628	233	590	2,791	60,479	17,323	77,802	82.3	64.0	1967
1968	52,793	4,624	2,901	60,318	1,047	264	902	3,932	66,463	19,325	85,788	79.4	61.5	1968
1969	56,708	5,419	3,132	65,259	1,210	312	1,181	5,506	73,468	20,738	94,206	77.2	60.2	1969
1970	60,057	6,239	3,497	69,793	1,244	335	1,439	7,641	80,452	23,915	104,367	74.6	57.5	1970
1971[r]	61,625	6,847	3,733	72,205	1,912	1,432	1,534	9,810	86,893	25,952	112,845	70.9	54.6	1971[r]
1972[r]	61,562	7,960	3,980	73,502	2,474	1,289	1,656	12,298	91,219	27,671	118,890	67.5	51.8	1972[r]
1973[r]	62,048	8,546	4,427	75,021	3,498	1,605	2,126	14,105	96,355	30,023	126,378	64.4	49.1	1973[r]
1974[r]	59,180	8,344	4,545	72,069	3,900	1,665	2,413	15,992	96,039	33,198	129,237	61.6	45.8	1974[r]

[r] Revised
N.A. Not Available
[1] Less than one-half unit

Source: 1950-1967: U.S. Bureau of Mines, Minerals Yearbook, Annual
1968: U.S. Bureau of Mines, World Natural Gas: 1972
1969-1970: U.S. Bureau of Mines, World Natural Gas: 1973
1971-1974: U.S. Bureau of Mines, World Natural Gas: 1975

WORLD MARKETED PRODUCTION OF NATURAL GAS BY AREA
(Millions of cubic feet per day)

	WESTERN HEMISPHERE													
Year	United States	Canada	Latin America	Western Hemisphere Total	Middle East	Africa	Asia-Pacific	Western Europe	Total Free World	Communist Nations	Total World	U.S. as a % of Free World Total	U.S. as a % of World Total	Year
1975	55,092	8,426	4,754	68,272	3,935	1,837	2,571	16,347	92,962	36,373	129,335	59.3%	42.6%	1975
1976	54,515	8,381	4,705	67,601	4,079	2,475	3,207	17,332	94,694	40,441	135,134	57.6	40.3	1976
1977(r)	54,864	8,851	5,112	68,827	4,357	2,519	3,729	17,815	97,247	40,013	137,260	56.4	40.0	1977(r)
1978(r)	54,723	8,570	5,515	68,808	4,552	3,061	4,334	18,219	98,974	42,805	141,779	55.3	38.6	1978(r)
1979(p)	55,816	9,990	7,151	72,957	4,451	2,816	5,008	18,813	104,045	53,675	157,720	53.7	35.4	1979(p)

(p) Preliminary
(r) Revised

Source: 1975-78: U.S. Energy Information Administration, World Natural Gas, Annuals.
1979: U.S. Energy Information Administration, United States only; Rest of World, Oil and Gas Journal.

SALIENT STATISTICS OF NATURAL GAS IN THE U.S.

(Million cubic feet)

Year	Marketed Production	Exports	Consumption	Imports	VALUE AT WELLHEAD			Imports as a % of Consumption	Withdrawn from Storage	Stored	Lost in Transmission	Vented and Flared	Year
					Total Thousand Dollars	Average Cents Per Mcf	Exports as a % of Production						
1947	4.582.173	18.149	4.426.544	—	$274.709	6.0¢	0.4%	—	86.643	96.316	127.807	1.067.938	1947
1948	5.148.020	18.704	4.945.149	—	333.173	6.5	0.4	—	79.035	136.406	126.796	810.178	1948
1949	5.419.736	20.054	5.195.484	—	344.034	6.3	0.4	—	106.368	172.051	138.515	853.884	1949
1950	6.282.060	25.727	6.026.404	—	408.521	6.5	0.4	—	175.260	229.752	175.437	801.044	1950
1951	7.457.359	24.163	7.102.562	—	542.964	7.3	0.3	—	209.428	347.690	192.372	793.186	1951
1952	8.013.457	27.456	7.613.478	7.807	623.649	7.8	0.3	0.1%	221.909	398.593	203.646	848.608	1952
1953	8.396.916	28.322	7.979.338	9.225	774.966	9.2	0.3	0.1	246.802	404.838	240.445	810.276	1953
1954	8.742.546	28.726	8.402.852	6.847	882.501	10.1	0.3	0.1	330.177	432.283	215.709	723.567	1954
1955	9.405.351	31.029	9.070.343	10.888	978.357	10.4	0.3	0.1	437.251	505.185	246.933	773.639	1955
1956	10.081.923	35.963	9.706.878	10.380	1.083.812	10.8	0.4	0.1	452.762	589.232	212.992	727.004	1956
1957	10.680.258	41.655	10.279.775	37.941	1.201.759	11.9	0.4	0.4	480.981	672.377	205.373	809.148	1957
1958	11.030.298	38.719	10.760.698	135.797	1.317.492	11.0	0.4	1.3	621.091	704.172	283.597	633.412	1958
1959	12.046.115	18.413	11.819.638	133.990	1.556.800	12.9	0.1	1.1	668.743	787.485	223.312	571.048	1959
1960	12.771.038	11.332	12.509.427	155.646	1.789.970	14.0	0.1	1.2	712.658	844.352	274.231	562.877	1960
1961	13.182.029	10.689	13.010.654	217.671	1.996.241	15.1	0.1	1.7	694.258	839.083	233.532	523.533	1961
1962	13.801.244	15.728	13.814.678	399.353	2.145.301	15.5	0.1	2.9	849.695	935.712	284.174	425.629	1962
1963	14.666.559	16.865	14.560.953	430.997	2.328.030	15.9	0.1	3.0	911.741	1.041.802	362.677	383.408	1963
1964	15.462.143	19.497	15.451.979	440.918	2.387.689	15.4	0.1	2.9	880.498	1.099.302	302.781	339.996	1964
1965	16.039.753	26.132	16.033.189	456.394	2.494.542	15.6	0.2	2.8	959.865	1.077.980	318.711	319.143	1965
1966	17.206.628	24.639	17.191.711	479.780	2.702.759	15.7	0.1	2.8	1.141.614	1.210.469	401.203	374.695	1966
1967	18.171.325	81.614	18.172.894	564.226	2.898.741	16.0	0.4	3.1	1.132.534	1.317.363	296.214	489.877	1967
1968	19.322.400	93.745	19.459.939	651.885	3.168.688	16.4	0.5	3.4	1.329.536	1.425.075	325.062	516.508	1968
1969	20.698.240	51.304	20.922.800	726.951	3.455.615	16.7	0.2	3.5	1.379.488	1.498.988	331.587	525.750	1969

Source: U.S. Bureau of Mines, Natural Gas Annuals

SALIENT STATISTICS OF NATURAL GAS IN THE U.S.
(Million Cubic Feet)

Year	Marketed Production	Exports	Consumption	Imports	VALUE AT WELLHEAD			Imports as a % of Consumption	Withdrawn from Storage	Stored	Lost in Trans-mission [1]	Vented and Flared	Year
					Total Thousand Dollars	Average Cents Per Mcf	Exports as a % of Production						
1970	21,920,642	69,813	22,045,799	820,780	$ 3,745,680	17.1¢	0.3%	3.7%	1,458,607	1,856,767	227,650	489,460	1970
1971	22,493,012	80,212	22,676,581	934,548	4,085,482	18.2	0.4	4.1	1,507,630	1,839,398	338,999	284,561	1971
1972	22,531,698	78,013	23,009,445	1,019,496	4,180,462	18.6	0.3	4.4	1,757,218	1,892,952	328,002	248,119	1972
1973	22,647,549	77,169	22,965,914	1,032,901	4,894,072	21.6	0.3	4.5	1,532,820	1,974,324	195,863	248,292	1973
1974	21,600,522	76,789	22,110,623	959,284	6,573,402	30.4	0.4	4.3	1,700,546	1,784,209	288,731	169,381	1974
1975	20,108,661	72,675	20,409,875	953,008	8,945,062	44.5	0.4	4.7	1,759,565	2,103,619	235,065	133,913	1975
1976	19,952,438	64,711	20,800,582	963,768	11,571,776	58.0	0.3	4.6	1,921,017	1,755,690	216,240	131,930	1976
1977	20,025,463	55,626	19,520,581	1,011,001	15,833,719	79.0	0.3	5.2	1,749,884	2,306,515	41,063	136,807	1977
1978	19,974,033	52,532	19,627,478	965,545	18,084,914	90.5	0.3	4.9	2,157,765	2,278,002	287,201	153,350	1978
1979	20,471,260	55,673	20,240,761	1,253,383	24,113,634	117.8	0.3	6.1	2,047,000	2,295,034	372,330	167,019	1979

---

[1] Also includes changes in above ground storage and gas unaccounted for.

Source: U.S. Energy Information Administration, Natural Gas Annuals

Section XIII
Table 6

U.S. IMPORTS OF NATURAL GAS BY SOURCE
(Billion cubic feet)

Year	Canada	Mexico	Algeria	Total Imports	U.S. Natural Gas Consumption	Imports as a % of U.S. Natural Gas Consumption
1968	605	47	(2)	652	19,460	3.4
1969	680	47	(2)	727	20,923	3.5
1970	779(1)	41	3(3)	823	22,046	3.7
1971	914(1)	21	3(3)	938	22,677	4.1
1972	1,010(1)	8	2(3)	1,020	23,009	4.4
1973	1,028(1)	2	3(3)	1,033	22,966	4.5
1974	959	(2)	0	959	22,111	4.3
1975	948	0	5(3)	953	20,410	4.7
1976	954	0	10(3)	964	20,801	4.6
1977	997	2	11(3)	1,011	19,521	5.2
1978	881	0	84(3)	965	19,627	4.9
1979	1,001	0	252(3)	1,253	20,163	6.2
1980	797	102	86(3)	985	20,073	4.9

---

(1) Includes approximately 1 billion cubic feet of liquefied natural gas in 1970, 2 billion cubic feet in 1971, 0.2 billion cubic feet in 1972, and 0.7 billion cubic feet in 1973.

(2) Less than one-half unit

(3) Liquefied natural gas

Source: U.S. Energy Information Administration, 1968-1977: World Natural Gas Annuals
1978-1980: U.S. Imports and Exports of Natural Gas

ESTIMATED NATURAL GAS RESERVES—TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

	1975		
Nation	Reserves	% of Free World Reserves	% of Total World Reserves
1. U.S.S.R.	810,000	—	31.8%
2. Iran	330,000	19.4%	13.0
3. United States	237,132	13.9	9.3
4. Algeria	229,000	13.5	9.0
5. United Arab Emirates[1/]	200,000	11.8	7.9
6. Netherlands	94,800	5.6	3.7
7. Canada	56,708	3.3	2.2
8. Saudi Arabia	55,000	3.2	2.2
9. United Kingdom	50,000	2.9	2.0
10. Nigeria	45,500	2.7	1.8
11. Venezuela	43,000	2.5	1.7
12. Australia	38,000	2.2	1.5
13. Kuwait	32,000	1.9	1.3
14. Iraq	27,500	1.6	1.1
15. Libya	26,500	1.6	1.0
16. People's Republic of China	25,000	—	1.0
17. Norway	24,700	1.5	1.0
18. Brunei-Malaysia	22,000	1.3	0.9
19. Indonesia	15,000	0.9	0.6
20. Mexico	15,000	0.9	0.6
Total Free World	1,700,404	100.0	66.8
Total World	2,546,404	—	100.0

	1976		
Nation	Reserves	% of Free World Reserves	% of Total World Reserves
1. U.S.S.R.	800,000	—	35.6%
2. Iran	329,500	23.3%	14.7
3. United States	228,200	16.1	10.1
4. Algeria	126,000	8.9	5.6
5. Saudi Arabia	103,000	7.3	4.6
6. Netherlands	70,000	5.0	3.1
7. Canada	56,975	4.0	2.5
8. United Kingdom	50,000	3.5	2.2
9. Nigeria	44,300	3.1	2.0
10. Venezuela	42,000	3.0	1.9
11. Australia	32,500	2.3	1.4
12. Kuwait	31,800	2.2	1.4
13. Libya	26,300	1.9	1.2
14. Norway	25,000	1.8	1.1
15. People's Republic of China	25,000	1.8	1.1
16. United Arab Emirates[1/]	20,000	1.4	0.9
17. Pakistan	16,400	1.2	0.7
18. Indonesia	15,000	1.1	0.7
19. Malaysia	15,000	1.1	0.7
20. Bolivia	10,800	0.8	0.5
Total Free World	1,413,897	100.0	62.9
Total World	2,248,897	—	100.0

[1/] Prior to 1972 figures reflect Abu Dhabi only. Beginning 1972 they reflect Abu Dhabi, Dubai and Sharjah which formed the United Arab Emirates.

Source: United States, American Gas Association, Committee on Natural Gas Reserves
Canada, Canadian Petroleum Association
Rest of the World, The Oil & Gas Journal, "World-Wide Oil" Issues

July 1976

Section XIII
Table 7

ESTIMATED NATURAL GAS RESERVES—TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

	1977		
Nation	Reserves	% of Free World Reserves	% of Total World Reserves
1. U.S.S.R.	918,000	—	43.4%
2. Iran	330,000	28.4%	15.6
3. United States	216,026	18.6	10.2
4. Algeria	125,800	10.8	5.9
5. Saudi Arabia	86,000	7.4	4.1
6. Netherlands	61,900	5.3	2.9
7. Canada	58,282	5.0	2.8
8. Nigeria	44,000	3.8	2.1
9. Venezuela	40,700	3.5	1.9
10. Australia	32,300	2.8	1.5
11. Kuwait	31,700	2.7	1.5
12. United Kingdom	30,000	2.6	1.4
13. Qatar	27,500	2.4	1.3
14. Iraq	27,000	2.3	1.3
15. Libya	25,800	2.2	1.2
16. People's Republic of China	25,000	—	1.2
17. Indonesia	24,000	2.1	1.1
18. Norway	18,500	1.6	0.9
19. Pakistan	15,820	1.4	0.7
20. Malaysia	15,000	1.3	0.7
TOTAL FREE WORLD	1,161,905	100.0	54.9
TOTAL WORLD	2,114,905	—	100.0

	1978		
Nation	Reserves	% of Free World Reserves	% of Total World Reserves
1. U.S.S.R.	920,000	—	36.5%
2. Iran	500,000	32.0%	19.9
3. United States	202,878	13.4	8.3
4. Algeria	125,000	8.0	5.0
5. Saudi Arabia	85,000	5.4	3.4
6. Netherlands	60,000	3.8	2.4
7. Canada	58,000	3.7	2.3
8. Nigeria	43,000	2.8	1.7
9. Venezuela	41,000	2.6	1.6
10. Qatar	40,000	2.6	1.6
11. Australia	32,000	2.0	1.3
12. Kuwait	31,500	2.0	1.3
13. Mexico	30,000	1.9	1.2
14. United Kingdom	29,000	1.9	1.2
15. Iraq	28,000	1.8	1.1
16. Libya	25,700	1.6	1.0
17. People's Republic of China	25,000	—	1.0
18. Indonesia	24,000	1.5	1.0
19. United Arab Emirates	21,500	1.4	0.9
20. Norway	20,000	1.3	0.8
TOTAL FREE WORLD	1,563,437	100.0	62.1
TOTAL WORLD	2,518,437	—	100.0

Source: United States, American Gas Association, Committee on Natural Gas Reserves
Canada, Canadian Petroleum Association
Rest of World, The Oil and Gas Journal, "Worldwide Report" issue

ESTIMATED NATURAL GAS RESERVES—TWENTY LEADING NATIONS
(AS OF JANUARY 1)
(Billion cubic feet)

	1981^(p)		
Nation	Reserves	% of Free World Reserves	% of Total World Reserves
1. U.S.S.R.	920,000	—	34.9
2. Iran	485,000	28.8%	18.4
3. United States^(p)	191,000	11.3	7.2
4. Algeria	131,500	7.8	5.0
5. Saudi Arabia	110,000	6.5	4.2
6. Canada	87,300	5.2	3.3
7. Mexico	64,500	3.8	2.4
8. Netherlands	62,000	3.7	2.3
9. Qatar	60,000	3.6	2.3
10. Norway	42,700	2.5	1.6
11. Venezuela	42,000	2.5	1.6
12. Nigeria	41,000	2.4	1.6
13. Kuwait	30,800	1.8	1.2
14. Australia	30,000	1.8	1.1
15. Iraq	27,450	1.6	1.0
16. United Kingdom	24,800	1.5	0.9
17. People's Republic of China	24,500	—	0.9
18. Libya	23,800	1.4	0.9
19. Indonesia	23,500	1.4	0.9
20. Argentina	22,000	1.3	0.8
TOTAL FREE WORLD	1,684,601	100.0	63.9
TOTAL WORLD	2,638,501		100.0

(p) Preliminary

Source: Oil and Gas Journal, "Worldwide Report" issue

WORLD NATURAL GAS PRODUCTION—TWENTY LEADING NATIONS
(Billion cubic feet)

	1974[r]					1975[r]			
	MARKETED PRODUCTION[1]					MARKETED PRODUCTION[1]			
Nation	Total	Billion cf/d	% of Free World Production	% of Total World Production	Nation	Total	Billion cf/d	% of Free World Production	% of Total World Production
1. United States	21,600.5	59.18	61.6%	45.8%	1. United States	20,106.7	55.09	59.3%	42.6%
2. U.S.S.R.	9,201.3	25.21	26.2	19.5	2. U.S.S.R.	10,205.9	27.96	30.0	21.6
3. Canada	3,045.5	8.34	8.7	6.5	3. Netherlands	3,208.4	8.79	9.5	6.8
4. Netherlands	2,956.7	8.10	8.4	6.3	4. Canada	3,075.7	8.43	9.1	6.5
5. United Kingdom	1,230.0	3.37	3.5	2.6	5. People's Republic of China	1,400.0	3.84	4.1	3.0
6. People's Republic of China	1,200.0	3.29	3.4	2.5	6. United Kingdom	1,208.2	3.31	3.6	2.6
7. Romania	1,011.5	2.77	2.9	2.1	7. Romania	953.5	2.61	2.8	2.0
8. Iran	787.4	2.16	2.2	1.7	8. Iran	771.1	2.11	2.3	1.6
9. West Germany	713.2	2.00	2.0	1.5	9. West Germany	639.4	1.75	1.9	1.4
10. Mexico	560.9	1.54	1.6	1.2	10. Mexico	583.9	1.60	1.7	1.2
11. Italy	540.4	1.48	1.5	1.1	11. Italy	514.3	1.41	1.5	1.1
12. Venezuela	476.0	1.30	1.4	1.0	12. Venezuela	450.3	1.23	1.3	1.0
13. Libya	345.2	.95	1.0	0.7	13. Libya	382.6	1.05	1.1	0.8
14. East Germany	273.1	.75	0.8	0.6	14. East Germany	280.0	.77	0.8	0.6
15. France	269.4	.74	0.8	0.6	15. Argentina	271.6	.74	0.8	0.6
16. Argentina	255.7	.70	0.7	0.5	16. France	259.8	.71	0.8	0.6
17. Saudi Arabia	219.0	.60	0.6	0.5	17. Poland	210.6	.58	0.6	0.4
18. Poland	202.7	.56	0.6	0.4	18. Algeria	210.0	.58	0.6	0.4
19. Algeria	198.5	.54	0.6	0.4	19. Saudi Arabia	200.0	.55	0.6	0.4
20. Kuwait	186.9	.51	0.5	0.4	20. Brunei	186.5	.51	0.6	0.4
TOTAL FREE WORLD	35,054.2	96.04	100.0	74.3	TOTAL FREE WORLD	33,931.1	93.00	100.0	71.9
TOTAL WORLD	47,171.5	129.24	—	100.0	TOTAL WORLD	47,207.3	129.34	—	100.0

[r] Revised

[1] Comprises all gas collected and utilized as fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers even though it is not actually sold.

Source: U.S. Bureau of Mines World Natural Gas, May 27, 1977.

WORLD NATURAL GAS PRODUCTION—TWENTY LEADING NATIONS
(Billion cubic feet)

	1976[r]					1977[p]			
	MARKETED PRODUCTION[1,2]					MARKETED PRODUCTION[1,2]			
Nation	Total	Billion cf/d	% of Free World Production	% of Total World Production	Nation	Total	Billion cf/d	% of Free World Production	% of Total World Production
1. United States	19,952.4	54.64	55.4%	39.6%	1. United States	20,337.5	55.72	57.5%	37.7%
2. U.S.S.R.	11,331.3	30.96	—	22.6	2. U.S.S.R.	12,395.2	33.96	—	23.0
3. Netherlands	3,542.7	9.68	9.9	7.1	3. Canada	3,301.4	9.04	9.3	6.1
4. Canada	3,157.2	8.63	8.8	6.3	4. Netherlands	2,932.5	8.03	8.3	5.4
5. Iran	1,699.6	4.64	4.7	3.4	5. People's Republic of China	1,787.0	4.90	—	3.3
6. People's Republic of China	1,433.7	3.92	—	2.9	6. Iran	1,756.1	4.81	5.0	3.3
7. United Kingdom	1,202.3	3.28	3.4	2.4	7. United Kingdom	1,499.9	4.11	4.2	2.8
8. Romania	854.6	2.33	—	1.7	8. Romania	1,005.5	2.75	—	1.9
9. Mexico	790.8	2.16	2.2	1.6	9. West Germany	907.7	2.49	2.6	1.7
10. Nigeria	632.6	1.73	1.8	1.3	10. Mexico	745.3	2.04	2.1	1.4
11. Italy	562.1	1.54	1.6	1.1	11. Nigeria	717.4	1.97	2.0	1.3
12. West Germany	544.0	1.49	1.5	1.1	12. Libya	488.6	1.34	1.4	0.9
13. Libya	439.2	1.20	1.2	0.9	13. Italy	448.6	1.23	1.3	0.8
14. Venezuela	396.0	1.08	1.1	0.8	14. Venezuela	392.8	1.08	1.1	0.7
15. Argentina	280.2	0.77	0.8	0.6	15. Indonesia	351.9	0.96	1.0	0.7
16. Algeria	256.9	0.70	0.7	0.5	16. Algeria	284.5	0.78	0.8	0.5
17. France	250.7	0.68	0.7	0.5	17. France	256.8	0.70	0.7	0.5
18. Indonesia	248.6	0.68	0.7	0.5	18. Argentina	250.0	0.68	0.7	0.5
19. Australia	209.3	0.57	0.6	0.4	19. Australia	236.7	0.65	0.7	0.4
20. Chile	175.8	0.48	0.5	0.4	20. Chile	208.9	0.57	0.6	0.4
TOTAL FREE WORLD	36,006.5	98.50	100.0	71.5	TOTAL FREE WORLD	3[illegible],393.2	96.97	100.0	65.7
TOTAL WORLD	50,367.1	137.74	—	100.0	TOTAL WORLD	53,883.7	147.63	—	100.0

[r] Revised

[p] Preliminary

[1] Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.

[2] United States is reported marketed production; all others may include some gross production.

Sources: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal.

WORLD NATURAL GAS PRODUCTION—TWENTY LEADING NATIONS
(Billion cubic feet)

	1978			
	MARKETED PRODUCTION[1][2]			
Nation	Total	Billion cf/d	% of Free World Production	% of Total World Production
1. United States	19,974.0	54.72	56.6%	37.1
2. U.S.S.R.	13,131.6	35.98	—	24.4
3. Canada	3,133.1	8.58	8.9	5.8
4. People's Republic of China	2,325.2	6.37	—	4.3
5. Iran	1,746.9	4.79	5.0	3.2
6. Netherlands	1,624.5	4.45	4.6	3.0
7. United Kingdom	1,262.4	3.46	3.6	2.3
8. Romania	1,211.6	3.32	—	2.3
9. Mexico	887.5	2.43	2.5	1.7
10. West Germany	643.2	1.76	1.8	1.2
11. Nigeria	586.6	1.61	1.7	1.1
12. Indonesia	565.8	1.55	1.6	1.1
13. Italy	540.8	1.48	1.5	1.0
14. Venezuela	401.4	1.10	1.1	0.7
15. Libya	364.0	1.00	1.0	0.7
16. Norway	351.8	0.96	1.0	0.7
17. Algeria	328.7	0.90	0.9	0.6
18. Brunei-Malaysia	325.7	0.89	0.9	0.6
19. Chile	320.7	0.88	0.9	0.6
20. Argentina	254.3	0.70	0.7	0.5
TOTAL FREE WORLD	35,272.8	96.6[illegible]	100.0	65.4
TOTAL WORLD	53,911.1	147.70	—	100.0

	1979			
	MARKETED PRODUCTION[1][2]			
Nation	Total	Billion cf/d	% of Free World Production	% of Total World Production
1. United States	20,471.3	56.09	53.8%	35.5
2. U.S.S.R.	14,367.1	39.36	—	24.9
3. Canada	3,646.5	9.99	9.6	6.3
4. People's Republic of China	2,832.7	7.76	—	4.9
5. Netherlands	2,717.8	7.45	7.1	4.7
6. United Kingdom	1,965.7	5.39	5.2	3.4
7. Romania	1,210.5	3.32	—	2.1
8. Mexico	974.9	2.67	2.6	1.7
9. Iran	913.3	2.50	2.4	1.6
10. West Germany	826.3	2.26	2.2	1.4
11. Indonesia	816.3	2.24	2.1	1.4
12. Italy	533.6	1.46	1.4	0.9
13. Norway	414.9	1.14	1.1	0.7
14. Venezuela	406.0	1.11	1.1	0.7
15. Nigeria	365.6	1.00	1.0	0.6
16. Chile	306.4	.84	0.8	0.5
17. Brunei-Malaysia	302.7	.83	0.8	0.5
18. Algeria	301.5	.83	0.8	0.5
19. Australia	254.1	.70	0.7	0.4
20. Argentina	241.7	.66	0.6	0.4
TOTAL FREE WORLD	38,075.1	103.58	100.0	66.0
TOTAL WORLD	57,666.5	157.26	—	100.0

---

(1) Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production.

Sources: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal.

Section XIII
Table 8b

WORLD NATURAL GAS PRODUCTION—TWENTY LEADING NATIONS
(Billion cubic feet)

	1980(p)			
	MARKETED PRODUCTION(1)(2)			
Nation	Total	Billion cf/d	% of Free World Production	% of Total World Production
1. United States	20,090.0	55.04	53.7%	34.4%
2. U.S.S.R.	15,355.5	42.07	—	26.3
3. People's Republic of China	3,469.0	9.50	—	5.9
4. Netherlands	2,799.6	7.67	7.5	4.8
5. Canada	2,668.3	7.31	7.1	4.6
6. United Kingdom	1,500.0	4.11	4.0	2.6
7. Mexico	1,190.5	3.26	3.2	2.0
8. Romania	1,176.4	3.22	—	2.0
9. Indonesia	1,028.4	2.82	2.8	1.8
10. West Germany	738.6	2.02	2.0	1.3
11. Norway	705.2	1.93	1.9	1.2
12. Pakistan	600.0	1.64	1.6	1.0
13. Italy	524.6	1.44	1.4	0.9
14. Venezuela	518.0	1.42	1.4	0.9
15. Algeria	517.0	1.42	1.4	0.9
16. Saudia Arabia	310.2	0.85	0.8	0.5
17. Argentina	296.9	0.81	0.8	0.5
18. Iran	292.0	0.80	0.8	0.5
19. Kuwait	291.3	0.80	0.8	0.5
20. Brunei	282.0	0.77	0.8	0.5
TOTAL FREE WORLD	37,388.9	102.44	100.0	64.0
TOTAL WORLD	58,458.8	160.16	—	100.0

(p) Preliminary

(1) Comprises all gas collected and utilized as a fuel or as a chemical industry raw material, including gas used in oil and/or gas fields as a fuel by producers, even though it is not actually sold.

(2) United States is reported marketed production; all others may include some gross production.

Source: U.S. Energy Information Administration, United States only; other nations, Oil and Gas Journal.

U.S. MARKETED PRODUCTION[1] OF NATURAL GAS BY STATE
(Million cubic feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	—	—	—	2	1	4	41	87	282	42	190	323	172	57
Alaska	—	—	—	—	—	—	—	—	—	—	—	50	133	246
Arizona	—	—	—	—	—	—	—	—	15	21	—	—	—	—
Arkansas	50,630	53,946	47,788	48,047	44,656	42,325	41,510	33,471	32,123	30,162	31,327	32,890	40,674	55,451
California	560,510	570,954	550,903	558,398	566,751	517,450	531,346	507,289	538,178	504,458	492,338	465,582	485,655	517,535
Colorado	8,392	8,967	8,490	11,168	14,128	34,260	28,509	45,705	49,152	54,205	95,259	82,464	99,899	107,404
Florida	8	27	39	8	10	15	34	35	36	35	34	35	34	30
Illinois	17,023	14,062	12,391	13,285	11,425	10,183	9,282	9,475	8,033	6,177	9,647	12,983	13,739	11,666
Indiana	877	553	334	956	845	836	701	735	1,226	791	671	378	484	342
Kansas	209,321	245,189	294,078	364,024	417,538	412,544	420,607	412,369	471,041	526,091	586,690	561,816	604,410	634,410
Kentucky	96,459	70,095	51,851	73,316	76,097	73,427	71,405	72,713	73,214	73,687	70,024	72,248	73,504	75,329
Louisiana	581,398	686,061	732,845	831,771	1,054,199	1,237,143	1,293,644	1,399,222	1,680,032	1,886,302	2,078,901	2,451,587	2,670,271	2,988,414
Maryland	—	—	—	373	3,422	2,372	1,408	1,394	3,116	4,619	4,649	4,266	4,373	4,065
Michigan	18,812	14,981	14,753	11,250	11,194	9,052	7,774	6,962	8,300	10,911	9,122	14,243	18,916	20,790
Mississippi	40,037	59,899	68,062	114,153	158,845	174,100	154,254	140,448	163,167	185,137	169,967	160,143	162,095	172,478
Missouri	38	27	24	21	14	16	15	16	15	12	12	—	—	75
Montana	34,282	36,551	35,291	39,186	36,424	28,714	27,889	30,252	28,255	25,847	28,638	27,989	30,743	33,418
Nebraska	—	—	—	17	3,895	5,568	6,748	6,801	12,515	13,541	14,249	11,405	13,128	15,258
New Mexico	142,740	194,749	204,961	212,909	300,169	359,377	399,086	449,346	540,664	626,340	723,004	761,446	739,660	798,928
New York	4,600	4,705	3,693	3,336	3,214	3,627	2,347	2,590	3,637	4,098	2,869	2,808	2,915	4,990
North Dakota	442	643	533	608	456	369	498	1,093	5,256	11,725	15,450	17,325	17,915	19,483
Ohio	68,946	65,619	46,512	43,163	38,879	30,993	37,542	28,824	33,756	25,368	30,384	31,786	34,664	36,074
Oklahoma	419,010	480,573	435,262	482,360	538,756	554,033	599,955	616,355	614,976	678,603	719,794	696,504	811,508	824,266
Pennsylvania	91,971	87,578	84,739	91,137	128,715	108,684	105,558	145,934	99,172	104,508	101,801	95,869	99,366	113,928
South Dakota	6	2	1	—	7	6	5	7	—	—	—	—	—	—
Tennessee	80	127	83	132	132	107	89	89	39	45	38	54	52	83
Texas	1,992,704	2,289,923	2,588,921	3,126,402	3,781,136	4,147,805	4,383,158	4,551,232	4,730,798	4,999,889	5,156,215	5,178,073	5,718,993	5,892,704
Utah	6,040	6,610	6,126	3,950	3,733	3,006	7,075	16,024	17,163	17,268	16,824	19,247	38,921	51,040
Virginia	64	74	65	46	64	1,133	3,697	1,401	968	2,926	2,465	2,521	2,280	2,227
West Virginia	192,233	203,681	181,176	189,980	191,146	180,995	186,477	191,601	212,403	204,717	202,440	204,581	204,633	208,757
Wyoming	45,550	52,424	50,815	62,062	71,508	75,313	76,262	71,068	77,819	84,398	117,256	121,682	156,978	181,610
Total	**4,582,173**	**5,148,020**	**5,419,736**	**6,282,060**	**7,457,359**	**8,013,457**	**8,396,916**	**8,742,546**	**9,405,351**	**10,081,923**	**10,680,258**	**11,030,298**	**12,046,115**	**12,771,038**

---

[1] Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Bureau of Mines, Natural Gas Annuals

April 1976

U.S. MARKETED PRODUCTION1/ OF NATURAL GAS BY STATE
(Million cubic feet)

STATE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
Alabama	56	128	177	165	203	252	248	230	180	627	355
Alaska	631	2,184	4,498	6,238	7,255	11,267	14,438	17,343	50,864	111,576	121,618
Arizona	—	230	1,334	2,014	3,106	3,161	1,255	881	1,136	1,101	868
Arkansas	59,547	66,213	76,101	75,753	82,831	105,174	116,522	156,627	169,257	181,351	172,154
California	556,241	564,220	646,486	660,444	660,384	689,607	681,080	714,693	677,689	649,117	612,629
Colorado	108,142	101,826	105,705	113,691	126,381	136,667	116,857	121,424	118,754	105,804	108,537
Florida	29	29	35	40	107	212	123	108	50	—	903
Illinois	9,970	10,650	9,459	7,824	7,396	7,230	5,144	4,380	3,800	4,850	498
Indiana	382	284	286	199	239	215	198	234	171	153	537
Kansas	649,083	694,352	732,946	764,073	793,379	847,495	871,971	835,555	883,156	899,955	885,144
Kentucky	70,937	70,241	74,634	76,940	78,976	76,536	89,168	89,024	81,304	77,892	72,723
Louisiana	3,271,857	3,525,456	3,928,427	4,152,731	4,466,786	5,081,435	5,716,857	6,416,015	7,227,826	7,788,276	8,081,907
Maryland	3,578	2,472	1,633	1,373	408	696	621	864	978	813	214
Michigan	27,697	28,987	32,850	31,388	34,558	34,120	33,589	40,480	36,163	38,851	25,662
Mississippi	172,543	170,271	176,807	180,428	166,825	156,652	139,497	135,051	131,234	126,031	118,805
Missouri	90	92	100	107	84	—	121	14	126	87	22
Montana	33,901	29,955	30,026	25,051	28,105	30,685	25,866	19,313	41,229	42,705	32,720
Nebraska	15,743	14,880	13,051	11,094	10,720	10,196	8,453	8,129	6,989	5,991	3,496
New Mexico	789,662	804,612	808,377	873,947	937,205	998,076	1,067,510	1,164,182	1,138,133	1,138,980	1,167,577
New York	5,742	4,262	3,962	3,108	3,340	2,699	3,837	4,632	4,861	3,358	2,202
North Dakota	20,100	25,155	32,798	34,512	35,652	46,585	40,462	41,023	33,587	34,889	33,864
Ohio	36,423	36,747	36,817	37,106	35,684	43,133	41,315	42,673	49,793	52,113	79,903
Oklahoma	892,697	1,060,717	1,233,883	1,316,201	1,320,995	1,351,225	1,412,952	1,390,884	1,523,715	1,594,943	1,684,260
Pennsylvania	100,427	90,053	92,657	81,720	84,461	90,914	89,966	87,987	79,134	76,841	76,451
South Dakota	—	—	—	—	—	—	—	—	—	—	—
Tennessee	71	75	90	77	85	—	58	48	57	64	89
Texas	5,963,605	6,080,210	6,205,034	6,490,202	6,636,555	6,953,790	7,188,900	7,495,414	7,853,199	8,357,716	8,550,705
Utah	57,175	74,128	77,122	79,739	71,616	69,366	48,965	46,151	46,733	42,781	42,418
Virginia	2,466	2,499	2,085	1,600	3,152	4,249	3,818	3,389	2,846	2,805	2,619
West Virginia	210,556	210,698	210,223	202,765	207,416	211,610	211,460	236,971	231,759	242,452	234,027
Wyoming	194,674	204,996	209,060	231,613	235,849	243,381	240,074	248,481	303,517	338,520	380,105
Total	**13,254,025**	**13,876,622**	**14,746,363**	**15,462,143**	**16,039,753**	**17,206,628**	**18,171,325**	**19,322,400**	**20,698,240**	**21,920,642**	**22,493,012**

1/ Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Bureau of Mines, Natural Gas Annuals

U.S. MARKETED PRODUCTION[1] OF NATURAL GAS BY STATE
(Million cubic feet)

STATE	1972	1973	1974	1975	1976	1977	1978	1979
Alabama	3,644	11,271	27,865	37,814	41,427	57,227	85,599	85,815
Alaska	125,596	131,007	128,935	160,270	166,072	187,889	203,088	220,754
Arizona	442	125	224	208	262	240	286	247
Arkansas	166,522	157,529	123,975	116,237	109,533	104,096	106,792	109,452
California	487,278	449,369	365,354	318,308	354,334	311,462	311,084	248,206
Colorado	116,949	137,725	144,629	171,629	183,972	188,792	183,693	191,239
Florida	15,521	33,857	38,137	44,383	43,165	48,171	51,595	50,190
Illinois	1,194	1,638	1,436	1,440	1,556	1,003	1,159	1,585
Indiana	355	276	176	346	192	183	163	350
Kansas	889,268	893,118	886,782	843,625	829,170	781,289	854,484	797,762
Kentucky	63,648	62,396	71,876	60,511	66,137	60,902	70,044	59,520
Louisiana	7,972,678	8,242,423	7,753,631	7,090,645	7,006,596	7,215,006	7,476,497	7,266,217
Maryland	244	298	133	93	75	82	88	28
Michigan	34,221	44,579	69,133	102,113	119,262	129,954	148,047	159,731
Mississippi	103,989	99,706	78,787	74,345	70,762	82,995	106,579	144,077
Missouri	9	33	33	30	29	20	—	—
Montana	33,474	56,175	54,873	40,734	42,563	46,619	46,522	53,888
Nebraska	3,478	3,836	2,538	2,565	2,511	2,789	2,882	3,208
New Mexico	1,216,061	1,218,749	1,244,779	1,217,430	1,230,976	1,202,973	1,174,198	1,181,363
New York	3,679	4,539	4,990	7,628	9,235	10,682	13,900	15,500
North Dakota	32,472	27,703	31,206	24,786	31,470	29,173	30,499	18.468
Ohio	89,995	93,610	92.055	84,960	88,891	99,327	114,098	123,481
Oklahoma	1,806,887	1,770,980	1,638,942	1,605,410	1,726,513	1,769,519	1,773,582	1,835,366
Oregon	—	—	—	—	—	—	—	2
Pennsylvania	73,958	78,514	82,637	84,676	89,386	91,717	97,763	96,313
South Dakota	—	—	—	—	—	—	—	914
Tennessee	25	20	17	27	47	263	468	941
Texas	8,657,840	8,513,850	8,170,798	7,485,764	7,191,859	7,051,027	6,548,184	7,174,623
Utah	39,474	42,715	50,522	55,354	57,416	60,696	58,416	58,605
Virginia	2,787	5,101	7,096	6,723	6,937	8,220	8,492	8,544
West Virginia	214,951	208,676	202,306	154,484	153,322	152,767	148,564	150,505
Wyoming	375,059	357,731	326,657	316,123	328,768	330,180	357,267	414,416
Total	**22,531,698**	**22,647,549**	**21,600,522**	**20,108,661**	**19,952,438**	**20,025,463**	**19,974,033**	**20,471,260**

---

[1] Marketed production of natural gas represents gross withdrawals less gas used for repressuring and quantities vented and flared.

Source: U.S. Energy Information Administration, Natural Gas Annuals

May 1981

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million Cubic Feet)

STATE	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Alabama	50.713	61.113	71.072	92.466	111.030	125.874	136.825	139.551	151.325	160.261	165.772	172.406	178.595	184.118
Alaska	—	—	—	—	—	—	—	—	—	—	—	—	133	229
Arizona	27.768	34.983	44.489	53.419	62.046	63.111	71.210	75.568	88.983	105.860	105.536	105.034	112.722	135.494
Arkansas	102.779	112.675	113.922	135.609	155.524	165.603	176.489	192.378	197.374	196.297	201.306	202.361	218.528	216.516
California	548.362	617.615	619.323	683.924	787.848	792.520	862.243	933.934	1.020.395	1.021.002	1.091.236	1.078.855	1.180.331	1.311.253
Colorado	49.027	60.585	73.664	88.692	102.769	101.835	115.922	126.048	143.018	145.640	176.936	165.099	196.057	207.646
Connecticut	—	—	—	—	—	1.039	5.833	11.415	14.187	18.109	20.328	27.884	25.875	28.453
Delaware	—	—	708	1.022	1.679	2.276	1.972	2.980	4.280	5.824	6.014	8.301	9.459	9.035
Dist. of Col	8.474	9.361	9.305	10.694	11.904	12.782	13.134	14.261	15.042	15.833	15.701	17.594	17.123	18.142
Florida	7.891	8.973	10.185	12.348	13.044	16.001	19.577	23.159	26.402	35.322	38.871	44.174	91.490	137.875
Georgia	41.368	47.552	58.824	67.894	94.596	108.329	122.742	132.069	133.044	148.567	154.778	164.114	180.342	182.087
Idaho	—	—	—	—	—	—	—	—	—	765	10.733	15.903	19.641	22.006
Illinois	132.153	168.796	202.546	235.211	250.812	344.705	350.988	391.408	398.718	417.443	422.840	452.006	518.111	536.549
Indiana	42.528	50.774	55.263	58.620	69.177	96.124	103.444	116.308	126.897	140.135	145.179	154.583	171.158	212.851
Iowa	40.948	50.350	57.620	66.233	79.640	94.951	106.755	119.876	138.661	147.892	154.964	159.982	182.827	187.138
Kansas	191.952	199.893	206.593	242.603	278.892	279.632	283.604	293.784	309.028	324.335	343.833	362.280	380.241	372.302
Kentucky	36.938	41.357	45.504	61.323	74.386	87.006	104.781	110.039	117.496	126.580	132.436	136.990	147.993	159.710
Louisiana	375.206	426.837	450.712	475.500	549.305	599.312	594.656	636.704	774.320	839.393	840.331	931.203	893.369	947.938
Maine	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/
Maryland	3.402	4.280	4.821	13.813	22.286	26.468	29.470	35.010	39.889	47.553	51.177	57.328	60.674	64.923
Massachusetts	—	—	—	—	1.783	11.386	17.683	35.486	43.932	50.691	56.626	67.602	72.994	77.886
Michigan	80.571	75.978	84.315	127.180	154.283	163.991	178.307	188.922	207.005	243.465	272.353	298.104	332.756	368.531
Minnesota	43.198	52.376	59.040	67.861	84.205	97.591	104.508	115.140	123.734	136.831	147.732	149.042	161.390	179.827
Mississippi	52.461	65.245	60.987	76.918	97.786	119.638	118.617	136.797	138.186	145.353	148.279	157.169	183.158	188.864
Missouri	78.101	90.883	99.667	140.384	156.922	168.992	173.674	188.349	199.272	219.424	223.528	241.239	255.095	261.372
Montana	30.919	32.919	34.361	38.544	37.481	40.771	39.934	40.624	47.491	47.690	52.200	51.825	52.183	54.569
Nebraska	39.699	47.647	51.911	61.742	72.386	78.544	83.384	93.189	102.177	109.265	116.326	114.661	132.651	139.028
Nevada	—	—	—	—	—	—	—	982	2.484	6.676	8.666	8.826	10.450	12.447
New Hampshire	—	—	—	—	3	316	857	1.065	1.206	1.445	1.787	2.421	2.480	2.852
New Jersey	—	—	3.172	3.209	30.887	40.409	58.685	65.718	74.601	90.092	100.483	119.946	132.984	139.258
New Mexico	102.766	110.132	127.423	147.509	174.808	194.748	200.039	177.221	215.281	229.821	243.800	251.518	272.922	266.409
New York	41.572	44.200	51.064	65.157	144.920	180.747	197.878	225.844	243.513	268.408	299.153	343.326	379.928	419.460
North Carolina	—	—	—	—	1.631	2.945	6.172	9.436	12.644	16.579	19.533	23.519	32.685	45.442
North Dakota	2.608	2.712	2.686	3.279	3.408	3.342	3.559	4.820	9.320	10.428	13.753	15.639	16.981	17.274
Ohio	221.571	236.137	246.212	324.594	375.820	393.250	420.809	442.523	500.865	561.557	583.753	618.022	670.618	698.569
Oklahoma	254.522	277.955	258.579	286.793	307.887	319.908	333.972	327.936	334.057	358.930	387.277	342.080	379.178	383.042
Oregon	—	—	—	—	—	—	—	—	—	4.473	18.227	22.752	27.498	30.861
Pennsylvania	175.906	191.631	209.749	263.199	311.937	324.187	335.457	353.185	390.280	431.325	445.813	465.732	502.066	520.788
Rhode Island	—	—	—	—	—	—	670	4.423	5.375	6.242	8.139	9.940	11.011	11.839
South Carolina	—	—	—	—	853	2.896	8.772	16.573	23.043	44.467	39.741	39.678	54.363	58.532
South Dakota	8.016	8.540	8.212	10.001	11.447	11.701	13.688	15.564	16.107	18.002	18.251	19.535	23.584	24.533
Tennessee	33.986	37.766	41.609	67.813	88.078	99.817	106.130	114.869	118.052	126.815	130.601	142.860	149.462	155.623
Texas	1.444.422	1.605.955	1.658.379	1.824.553	2.130.377	2.175.100	2.194.172	2.198.175	2.236.540	2.323.847	2.455.528	2.555.541	2.865.595	2.981.167
Utah	20.919	21.627	24.338	26.368	29.014	30.929	34.592	41.073	48.903	54.669	57.004	55.706	61.401	75.650
Vermont	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/	1/
Virginia	3.055	3.877	4.324	7.639	14.853	18.630	27.716	35.604	38.884	43.362	48.527	56.052	59.842	66.181
Washington	—	—	—	—	—	—	—	—	—	5.224	40.108	53.063	58.650	64.934
West Virginia	106.105	112.702	111.802	132.273	139.608	146.153	148.017	138.846	158.006	161.246	159.520	164.347	191.548	179.969
Wisconsin	267	323	1.696	15.380	28.382	33.632	36.339	39.287	40.621	48.188	59.592	67.596	82.377	90.620
Wyoming	26.351	31.400	31.407	36.637	38.865	36.287	36.070	36.709	39.705	45.552	45.504	46.810	59.119	59.635
U.S. Total	**4,426,544**	**4,945,149**	**5,195,484**	**6,026,404**	**7,102,562**	**7,613,478**	**7,979,338**	**8,402,852**	**9,070,343**	**9,706,878**	**10,279,775**	**10,760,648**	**11,819,638**	**12,509,427**

1/ Included with New Hampshire

Source: U.S. Bureau of Mines, Natural Gas Annuals

U.S. CONSUMPTION OF NATURAL GAS BY STATE
(Million of Cubic Feet)

STATE	1961	1962	1963	1964	1965	1966	1967	1968
Alabama	184.909	194.369	205.763	222.047	229.152	233.098	254.176	287.212
Alaska	557	2.137	4.214	5.781	6.922	10.784	11.889	17.548
Arizona	153.674	157.892	157.494	162.570	154.489	162.320	158.766	176.547
Arkansas	209.420	224.744	251.129	273.671	281.825	295.078	298.959	325.236
California	1.405.882	1.476.322	1.554.126	1.737.341	1.757.292	1.884.878	1.945.935	2.078.719
Colorado	212.611	204.940	207.663	236.325	236.745	233.896	235.634	261.366
Connecticut	30.361	32.227	34.809	37.502	40.822	47.695	49.780	53.202
Delaware	9.380	14.492	16.378	17.091	17.969	19.045	21.063	24.059
Dist. of Col	18.518	19.338	19.359	20.633	21.210	2/	2/	2/
Florida	143.656	157.735	177.496	185.249	188.389	212.278	225.531	275.534
Georgia	179.957	192.638	187.600	206.691	211.321	233.291	254.334	283.115
Idaho	23.969	25.806	26.635	30.825	33.889	36.104	34.283	39.479
Illinois	574.346	620.309	658.432	731.921	772.092	854.149	962.078	1.008.061
Indiana	239.932	272.309	297.897	333.718	357.882	399.905	434.632	454.013
Iowa	204.663	213.552	219.005	243.634	247.513	239.478	272.850	297.498
Kansas	364.957	380.055	387.880	433.429	464.337	507.704	481.443	525.592
Kentucky	161.912	168.133	175.928	185.780	182.828	160.392	203.964	205.380
Louisiana	1.036.887	1.007.041	1.070.471	1.139.186	1.155.260	1.258.776	1.509.553	1.661.782
Maine	1/	1/	1/	1/	1/	1/	1/	1/
Maryland	68.390	76.551	81.774	86.813	93.957	117.208	139.853	149.125
Massachusetts	81.768	89.015	98.447	106.699	114.227	116.198	128.217	132.325
Michigan	407.732	443.677	463.667	500.628	558.240	619.863	689.446	703.782
Minnesota	192.584	214.130	219.047	236.976	248.741	264.488	283.086	311.898
Mississippi	190.930	199.733	227.184	252.023	249.845	286.390	283.287	312.862
Missouri	274.487	289.482	303.075	325.194	341.144	351.768	360.703	365.546
Montana	57.781	63.298	67.337	67.652	70.895	73.829	65.782	63.642
Nebraska	143.169	146.043	149.014	164.224	168.032	198.592	189.831	204.139
Nevada	15.864	17.528	19.292	23.928	27.679	34.218	35.035	37.029
New Hampshire	3.018	3.315	3.596	3.813	4.084	5.567	6.578	6.630
New Jersey	153.806	174.210	188.249	200.109	209.757	227.271	251.482	268.495
New Mexico	288.455	292.495	275.969	257.173	263.798	261.918	301.739	309.409
New York	435.417	474.384	506.942	513.828	544.414	631.808	589.120	639.845
North Carolina	50.523	56.373	62.296	68.533	75.745	86.753	97.981	114.809
North Dakota	19.625	22.196	23.765	26.232	30.318	40.836	37.008	38.481
Ohio	719.674	756.398	797.318	824.111	879.639	944.767	962.821	987.841
Oklahoma	378.096	485.726	588.245	598.631	524.404	490.032	500.330	552.189
Oregon	33.827	37.865	43.350	53.984	56.065	65.093	69.877	79.226
Pennsylvania	529.716	550.080	585.426	607.277	629.485	677.111	678.599	718.025
Rhode Island	12.780	13.794	14.725	15.465	16.349	16.684	18.493	20.704
South Carolina	60.928	70.645	75.099	78.716	86.865	96.437	100.539	127.514
South Dakota	25.820	27.413	25.159	27.639	26.974	28.256	27.735	28.815
Tennessee	160.667	167.737	169.418	181.476	201.499	226.025	232.212	234.288
Texas	3.030.914	3.209.968	3.313.837	3.377.093	3.482.821	3.709.715	3.918.930	4.153.513
Utah	81.879	92.890	103.628	119.625	114.601	106.474	107.685	113.132
Vermont	1/	1/	1/	—	—	2/	2/	2/
Virginia	70.579	77.254	83.011	89.072	95.700	121.702	115.887	121.928
Washington	70.343	81.431	86.834	105.789	108.108	116.879	127.230	139.421
West Virginia	192.221	188.602	190.264	182.515	179.084	183.109	165.228	189.027
Wisconsin	113.679	136.516	152.354	170.202	200.484	224.675	248.033	271.765
Wyoming	61.451	67.336	69.879	67.559	70.298	79.174	85.277	90.191
U.S. Total	**13.081.714**	**13.890.129**	**14.640.480**	**15.536.373**	**16.033.189**	**17.191.711**	**18.172.894**	**19.459.939**

1/ Included with New Hampshire
2/ Included with Maryland

Source: U.S. Bureau of Mines, Natural Gas Annuals

BEST AVAILABLE COPY

U.S. CONSUMPTION OF NATURAL GAS BY STATE (Continued)
(Million Cubic Feet)

STATE	1969	1970	1971	1972	1973	1974	1975	1976
Alabama	301,128	298,722	286,254	278,710	272,267	275,262	264,782	226,640
Alaska	42,914	63,990	67,805	75,407	64,059	63,971	85,995	91,350
Arizona	195,476	192,996	213,313	227,909	214,323	192,446	156,222	171,275
Arkansas	353,465	385,186	336,207	317,572	328,921	291,345	259,119	249,764
California	2,078,868	2,156,367	2,176,849	2,209,699	2,063,125	1,851,614	1,848,070	1,770,736
Colorado	276,495	285,733	293,521	313,817	328,681	319,266	317,392	314,228
Connecticut	57,485	60,574	61,434	64,008	62,609	66,343	64,011	65,855
Delaware	25,863	26,421	26,452	24,088	22,949	20,365	18,603	19,182
Dist. of Col.	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]
Florida	313,608	338,645	336,901	301,121	314,384	292,920	289,265	302,882
Georgia	311,543	332,526	342,579	331,143	348,089	330,339	326,559	261,320
Idaho	41,436	46,570	50,096	56,630	56,045	53,057	60,451	47,156
Illinois	1,098,817	1,188,043	1,242,797	1,220,635	1,163,800	1,163,215	1,107,900	1,187,712
Indiana	530,981	545,368	566,996	576,948	542,300	531,872	477,341	425,221
Iowa	318,341	348,662	344,639	344,516	364,640	367,595	345,798	311,425
Kansas	583,040	614,537	646,730	668,847	648,369	630,429	541,490	556,172
Kentucky	243,461	254,622	250,493	261,271	250,913	233,560	212,993	251,198
Louisiana	1,942,072	2,034,049	2,078,996	2,137,729	2,216,692	2,202,693	1,978,129	2,216,289
Maine	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
Maryland	168,944	182,135	188,371	204,922	201,961	199,331	165,932	176,272
Massachusetts	136,988	147,307	156,451	160,280	155,547	155,268	153,967	156,247
Michigan	779,278	811,454	852,575	866,682	921,932	937,964	887,063	894,700
Minnesota	325,687	342,322	351,442	351,408	360,811	351,644	331,186	320,156
Mississippi	327,499	361,652	379,538	379,044	314,870	276,878	230,620	199,642
Missouri	398,697	429,526	429,105	425,215	426,807	409,884	369,620	380,258
Montana	78,988	90,823	89,021	85,161	91,148	80,766	80,351	75,132
Nebraska	210,631	222,890	224,273	225,101	230,106	223,267	219,147	198,893
Nevada	44,140	52,558	66,511	69,522	73,072	63,438	61,251	66,797
New Hampshire	9,196	10,691	12,088	13,267	13,881	14,697	13,534	13,545
New Jersey	304,835	322,853	326,768	321,288	301,566	275,050	244,102	321,535
New Mexico	302,389	322,750	323,178	342,150	312,593	312,422	296,369	340,754
New York	683,688	710,885	716,550	692,730	682,547	627,493	576,883	595,933
North Carolina	136,651	151,227	160,567	163,897	160,871	140,217	114,822	101,175
North Dakota	37,389	37,207	37,169	39,672	35,397	38,030	39,230	43,598
Ohio	1,031,963	1,052,933	1,087,126	1,147,804	1,104,156	1,086,651	956,876	1,005,927
Oklahoma	603,461	656,095	667,496	686,133	673,385	722,870	728,827	812,197
Oregon	87,854	95,284	100,897	110,360	107,961	98,051	109,898	92,500
Pennsylvania	766,034	772,467	802,168	829,031	783,368	715,623	653,810	713,579
Rhode Island	22,555	25,093	25,662	22,494	20,559	23,781	23,129	20,697
South Carolina	140,826	159,830	156,263	144,120	153,147	131,991	122,949	148,989
South Dakota	33,826	36,319	31,832	34,077	31,221	32,076	32,534	39,207
Tennessee	247,857	256,148	265,011	277,275	293,620	260,171	217,328	212,326
Texas	4,324,701	4,559,373	4,813,016	4,882,741	5,087,521	4,912,481	4,379,948	4,403,942
Utah	123,291	123,430	125,225	127,475	126,595	124,973	127,819	150,237
Vermont	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
Virginia	128,748	136,523	144,014	155,658	152,848	143,650	121,320	123,509
Washington	144,521	149,992	156,663	170,448	197,861	182,723	164,334	148,781
West Virginia	178,280	192,340	189,319	208,552	195,744	191,975	167,693	159,007
Wisconsin	316,279	337,822	348,132	320,826	367,961	381,148	364,801	315,154
Wyoming	112,611	122,859	128,088	142,062	124,692	109,818	100,412	101,488
U.S. Total	**20,922,800**	**22,045,799**	**22,676,581**	**23,009,445**	**22,965,914**	**22,110,623**	**20,409,875**	**20,800,582**

---

[1] Included with New Hampshire
[2] Included with Maryland

Source: U.S Energy Information Administration, Natural Gas Annuals

Section XIII
Table 10c

U.S. CONSUMPTION OF NATURAL GAS BY STATE (Continued)
(Million cubic feet)

STATE	1977	1978	1979
Alabama	241,237	237,258	283,435
Alaska	116,278	145,025	157,236
Arizona	167,092	175,041	172,738
Arkansas	229,558	220,699	250,747
California	1,772,041	1,563,172	1,810,381
Colorado	282,215	267,838	292,272
Connecticut	64,068	65,191	67,957
Delaware	15,787	20,626	24,981
Dist. of Col.	(2)	(2)	(2)
Florida	302,344	318,344	344,177
Georgia	264,665	278,272	312,299
Idaho	45,537	44,210	54,237
Illinois	1,167,099	1,174,934	1,142,732
Indiana	398,268	440,955	504,185
Iowa	280,246	238,229	291,521
Kansas	506,910	519,346	584,236
Kentucky	219,521	212,913	218,689
Louisiana	2,190,848	2,249,172	1,978,382
Maine	(1)	(1)	(1)
Maryland	158,838	161,695	201,584
Massachusetts	160,343	160,503	156,459
Michigan	741,295	789,594	875,726
Minnesota	293,381	313,229	334,202
Mississippi	197,689	203,719	254,366
Missouri	366,970	358,905	347,257
Montana	70,956	72,649	69,805
Nebraska	188,804	163,051	170,013
Nevada	71,052	64,506	84,433
New Hampshire	13,609	14,039	14,881
New Jersey	247,120	228,843	260,579
New Mexico	229,813	213,698	211,182
New York	561,698	569,702	623,891
North Carolina	72,527	81,989	130,884
North Dakota	37,650	39,067	29,236
Ohio	847,497	929,593	898,029
Oklahoma	766,986	770,249	824,980
Oregon	72,521	86,140	93,707
Pennsylvania	668,337	673,770	740,818
Rhode Island	25,631	23,042	27,219
South Carolina	138,585	117,573	119,319
South Dakota	36,097	35,423	25,724
Tennessee	202,135	184,048	226,477
Texas	4,143,023	4,211,432	4,001,355
Utah	106,315	118,513	126,047
Vermont	(1)	(1)	(1)
Virginia	118,020	134,144	134,088
Washington	142,657	127,280	158,515
West Virginia	144,535	151,839	148,538
Wisconsin	349,160	370,726	367,517
Wyoming	83,623	87,292	93,797
U.S. Total	**19,520,581**	**19,627,478**	**20,240,781**

---

(1) Included with New Hampshire
(2) Included with Maryland

Source: U.S. Energy Information Administration, Natural Gas Annuals

May 1981

SECTION XIV. OPEC

Table 1. OPEC Crude Oil Reserves

Table 2. OPEC Crude Oil Production

Table 3. U.S. Total Petroleum Imports From OPEC Nations

Table 4. U.S. Crude Oil Imports From OPEC Nations

BEST AVAILABLE COPY

OPEC CRUDE OIL RESERVES
ANNUALLY AS OF JANUARY 1
(Millions of barrels)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC	OPEC as a % of Free World Total	OPEC as a % of World Total	Year
1960	50,000	62,000	6,500	35,000	25,000	18,000	—	—	—	—	—	—	—	—	196,500	75.6%	67.8%	1960
1961	50,000	62,000	6,000	35,000	27,000	18,500	2,500	—	—	—	—	—	—	—	201,000	76.1	67.5	1961
1962	52,000	62,000	6,000	35,000	26,500	17,550	2,750	3,000	9,500	—	—	—	—	—	214,300	79.0	70.2	1962
1963	52,000	63,000	7,500	37,000	26,000	17,000	3,000	4,500	10,000	—	—	—	—	—	220,000	78.7	71.1	1963
1964	60,000	63,500	10,000	37,000	25,500	17,000	2,950	7,000	10,000	—	—	—	—	—	232,950	78.3	71.3	1964
1965	60,500	63,000	12,500	38,000	25,000	17,000	3,500	9,000	10,000	—	—	—	—	—	238,500	77.5	70.4	1965
1966	60,000	62,500	12,400	40,000	25,000	17,250	3,000	10,000	9,500	—	—	—	—	—	239,650	76.1	68.8	1966
1967	66,000	68,700	13,000	44,200	24,000	17,400	4,000	20,000	9,100	12,500	—	—	—	—	278,900	80.1	73.0	1967
1968	74,700	70,000	13,500	43,800	23,500	17,000	3,750	29,200	9,000	15,000	—	—	—	—	299,450	80.5	73.5	1968
1969	77,000	69,000	15,000	54,000	28,000	15,500	3,875	30,000	8,850	18,000	7,000	—	—	—	326,225	81.8	71.7	1969
1970	140,000	68,000	13,000	55,000	27,500	14,750	5,500	35,000	9,000	16,000	8,000	—	—	—	391,750	83.3	73.8	1970
1971	128,500	67,100	25,700	70,000	32,000	14,000	4,300	29,200	10,000	11,800	30,000(10)	9,300	—	—	431,900	84.5	70.7	1971
1972	145,300	66,023	24,350	55,500	35,900	13,900	6,000	25,000	10,400	18,948	12,250	11,680	—	—	425,251	79.6	67.2	1972
1973	138,000	64,900	16,000	65,000	29,000	13,700	7,000	30,400	10,005	20,768	47,000	15,000	5,750	1,100	463,623	81.9	69.8	1973
1974	132,000	64,000	17,500	60,000	31,500	14,000	6,500	25,500	10,500	25,500	7,640	20,000	5,675	1,500	421,815	80.5	67.3	1974
1975	164,500	72,800	17,300	66,000	35,000	15,000	6,000	26,600	15,000	33,920	7,700	20,900	2,500	1,750	484,970	80.7	68.1	1975
1976	148,600	68,000	6,400	64,500	34,300	17,700	5,850	26,100	14,000	32,200	7,370	20,200	2,450	2,200	449,879	81.1	68.4	1976
1977	151,400	67,400	6,300	63,000	34,000	15,270	5,700	25,500	10,500	31,200	6,800	19,500	1,700	2,125	440,395	81.7	68.8	1977
1978	150,000	67,000	6,200	62,000	34,500	18,200	5,600	25,000	10,000	32,425	6,600	18,700	1,640	2,050	439,915	80.3	68.1	1978
1979	165,700	66,200	6,480	59,000	32,100	18,000	4,000	24,300	10,200	31,316	6,300	18,200	1,170	1,970	444,936	81.2	69.3	1979
1980	163,350	65,400	6,260	58,000	31,000	17,870	3,760	23,500	9,800	29,411	8,440	17,400	1,100	500	435,591	79.0	68.0	1980
1981	165,000	64,900	6,060	57,500	30,000	17,950	3,585	23,000	9,500	30,410	8,200	16,700	1,100	450	434,355	77.3	67.0	1981

---

(1) Original member 1960

(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis

(3) Joined in 1961

(4) Joined in 1962

(5) Aubu Dhabi joined in 1967. Figures reflect only Abu Dhabi reserves until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.

(6) Joined in 1969

(7) Joined in 1971

(8) Joined in 1973

(9) Joined as an associate member in 1973 and became a full member in 1975

(10) Government estimate

Source: Oil and Gas Journal, "Worldwide Report" issue

May 1981

OPEC CRUDE OIL PRODUCTION
(Thousands of barrels per day)

Year	Saudi Arabia (1)	Kuwait (1)	Neutral Zone (2)	Iran (1)	Iraq (1)	Venezuela (1)	Qatar (3)	Libya (4)	Indonesia (4)	United Arab Emirates (5)	Algeria (6)	Nigeria (7)	Ecuador (8)	Gabon (9)	Total OPEC	OPEC as a % of Free World Total	OPEC as a % of World Total	Year
1960	1,247	1,624	136	1,064	967	2,846	—	—	—	—	—	—	—	—	7,874	44.6%	37.6%	1960
1961	1,393	1,644	179	1,183	1,002	2,920	176	—	—	—	—	—	—	—	8,497	45.5	39.9	1961
1962	1,521	1,834	244	1,320	1,005	3,200	186	184	460	—	—	—	—	—	9,954	49.3	40.9	1962
1963	1,629	1,933	314	1,474	1,159	3,248	192	464	452	—	—	—	—	—	10,865	50.4	41.6	1963
1964	1,716	2,117	359	1,691	1,262	3,393	213	862	469	—	—	—	—	—	12,082	52.1	42.9	1964
1965	2,025	2,170	362	1,886	1,322	3,473	231	1,220	488	—	—	—	—	—	13,177	52.9	43.5	1965
1966	2,393	2,275	420	2,113	1,385	3,371	290	1,507	463	—	—	—	—	—	14,217	52.6	43.2	1966
1967	2,598	2,292	415	2,596	1,228	3,542	324	1,744	507	384	—	—	—	—	15,631	53.9	44.2	1967
1968	2,830	2,421	428	2,840	1,499	3,605	340	2,599	601	497	—	—	—	—	17,660	55.4	45.7	1968
1969	2,993	2,575	447	3,375	1,521	3,649	383	3,111	742	599	946	—	—	—	20,341	59.0	48.8	1969
1970	3,549	2,735	504	3,829	1,558	3,708	363	3,313	854	691	1,030	—	—	—	22,134	58.4	48.3	1970
1971	4,498	2,925	545	4,553	1,710	3,549	429	2,761	892	934	766	1,530	—	—	25,092	62.9	51.9	1971
1972	5,733	2,999	566	5,024	1,447	3,220	482	2,239	1,081	1,050	1,052	1,818	—	—	26,711	63.7	52.6	1972
1973	7,335	2,759	523	5,861	2,018	3,366	570	2,175	1,338	1,533	1,097	2,054	209	151	30,989	67.5	55.5	1973
1974	8,210	2,276	543	6,022	1,975	2,976	519	1,521	1,375	1,689	1,009	2,256	174	202	30,747	67.8	54.5	1974
1975	6,827	1,838	496	5,350	2,262	2,346	437	1,510	1,307	1,694	961	1,786	161	225	27,200	65.4	50.9	1975
1976	8,344	1,913	469	5,924	2,281	2,294	487	1,924	1,504	1,891	1,049	2,066	188	224	30,558	67.5	52.8	1976
1977	9,014	1,783	372	5,699	2,493	2,238	445	2,064	1,685	1,999	1,123	2,097	183	222	31,417	67.0	52.4	1977
1978	8,530	1,865	466	5,207	2,629	2,166	484	1,993	1,637	1,832	1,225	1,910	202	225	30,371	64.5	50.0	1978
1979(r)	9,251	2,213	568	3,168	3,477	2,356	508	2,092	1,591	1,831	1,137	2,302	214	203	30,911	63.2	49.1	1979(r)
1980(p)	9,626	1,387	538	1,662	2,514	2,167	472	1,787	1,577	1,709	1,037	2,055	222	175	26,928	59.5	45.3	1980(p)

(r) Revised
(p) Preliminary
(1) Original member, 1960
(2) Saudi Arabia and Kuwait share the production from the Neutral Zone on a 50-50 basis.
(3) Joined in 1961
(4) Joined in 1962
(5) Abu Dhabi joined in 1967. Figures reflect only Abu Dhabi production until 1974 when membership was transferred to the United Arab Emirates which includes Dubai and Sharjah.
(6) Joined in 1969
(7) Joined in 1971
(8) Joined in 1973
(9) Joined as an associate member in 1973 and became a full member in 1975.

Source: U.S. Energy Information Administration
1979-1980: CIA, International Energy Statistical Review

May 1981

U.S. TOTAL PETROLEUM IMPORTS FROM OPEC NATIONS
(Thousands of barrels per day)

Year	Saudi Arabia[1]	Kuwait[1]	Neutral Zone[2]	Iran[1]	Iraq[1]	Venezuela[1]	Qatar[3]	Libya[4]	Indonesia[4]	United Arab Emirates[5]	Algeria[6]	Nigeria[7]	Ecuador[8]	Gabon[9]	Total OPEC	Total U.S. Petroleum Imports	OPEC as a % of Total U.S. Petroleum Imports	Year
1960	79	146	45	36	17	832	—	—	—	8	—	—	—	—	1,155	1,815	63.6	1960
1961	69	130	53	60	25	800	36	—	—	—	—	—	—	—	1,173	1,917	61.2	1961
1962	73	120	43	49	2	907	27	19	67	—	—	—	—	—	1,307	2,062	62.8	1962
1963	86	89	44	62	1	899	17	19	59	—	—	—	—	—	1,276	2,123	60.1	1963
1964	106	69	48	66	—	931	20	39	63	—	—	—	—	—	1,342	2,258	59.4	1964
1965	144	60	27	79	16	994	13	41	61	—	—	—	—	—	1,435	2,468	58.1	1965
1966	135	31	19	89	26	1,021	1	69	50	—	—	—	—	—	1,441	2,573	56.0	1966
1967	86	23	11	71	5	935	—	42	62	5	—	—	—	--	1,240	2,537	48.9	1967
1968	60	48	29	61	—	888	—	114	73	15	—	—	—	—	1,288	2,840	45.4	1968
1969	42	39	43	46	—	876	1	135	89	14	2	—	—	—	1,287	3,166	40.7	1969
1970	42	36	—	38	—	989	—	47	70	63	8	—	—	—	1,293	3,419	37.8	1970
1971	127	36	—	112	11	1,019	—	57	111	80	15	103	—	—	1,671	3,925	42.6	1971
1972	190	45	—	142	4	960	3	123	164	73	92	251	—	—	2,047	4,741	43.2	1972
1973	486	47	—	223	4	1,135	7	164	213	71	135	459	48	—	2,992	6,256	47.8	1973
1974	461	5	—	469	—	979	17	4	300	74	190	713	42	23	3,277	6,112	53.6	1974
1975	715	15	—	280	3	698	18	232	388	117	282	762	57	27	3,594	6,025	59.7	1975
1976	1,230	5	—	298	26	699	24	453	539	254	432	1,025	51	28	5,064	7,295	69.3	1976
1977	1,380	48	—	535	73	690	67	723	541	335	559	1,143	57	42	6,193	8,807	70.3	1977
1978	1,144	6	—	555	62	645	64	654	573	385	649	919	54	41	5,751	8,363	68.8	1978
1979[r]	1,356	8	—	304	88	690	31	658	420	281	636	1,080	42	42	5,636	8,456	66.7	1979[r]

---

[r] Revised

[1] Original member, 1960

[2] In 1969, Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.

[3] Joined in 1961

[4] Joined in 1962

[5] Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to the other members of the U.A.E. in 1974.

[6] Joined in 1969

[7] Joined in 1971

[8] Joined in 1973

[9] Joined as an associate member in 1973 and became a full member in 1975

Source: U.S. Energy Information Administration, P.A.D. District Supply/Disposition Annual

U.S. CRUDE OIL IMPORTS FROM OPEC NATIONS
(Thousands of barrels per day)

Year	Saudi Arabia[1]	Kuwait[1]	Neutral Zone[2]	Iran[1]	Iraq[1]	Venezuela[1]	Qatar[3]	Libya[4]	Indonesia[4]	United Arab Emirates[5]	Algeria[6]	Nigeria[7]	Ecuador[8]	Gabon[9]	Total OPEC	Total U.S. Crude Oil Imports	OPEC as a % of Total U.S. Crude Oil Imports	Year
1960	77	130	45	36	17	472	—	—	—	—	—	—	—	—	777	1,015	76.6%	1960
1961	62	121	53	60	20	427	10	—	—	—	—	—	—	—	753	1,045	72.1	1961
1962	67	112	43	49	2	463	26	18	67	—	—	—	—	—	847	1,126	75.2	1962
1963	79	81	44	62	1	478	16	19	59	—	—	—	—	—	839	1,131	74.2	1963
1964	97	64	48	66	—	476	20	39	63	—	—	—	—	—	873	1,198	72.9	1964
1965	132	55	27	78	16	432	12	41	61	—	—	—	—	—	854	1,238	69.0	1965
1966	126	26	19	84	26	404	1	69	50	—	—	—	—	—	805	1,225	65.7	1966
1967	81	19	11	65	5	359	—	42	62	5	—	—	—	—	649	1,128	57.5	1967
1968	52	43	29	58	—	344	—	114	73	15	—	—	—	—	728	1,290	56.4	1968
1969	35	34	43	42	—	306	1	134	89	14	1	—	—	—	699	1,490	46.9	1969
1970	40	33	—	33	—	268	—	47	70	63	6	—	—	—	560	1,324	42.3	1970
1971	115	29	—	106	11	303	—	53	110	80	13	95	—	—	915	1,681	54.4	1971
1972	174	36	—	136	4	255	3	109	163	73	87	243	—	—	1,283	2,216	57.9	1972
1973	462	42	—	217	4	344	7	133	200	71	119	448	47	—	2,094	3,244	64.5	1973
1974	438	5	—	463	—	319	17	4	284	69	180	697	42	23	2,541	3,477	73.1	1974
1975	701	4	—	278	2	395	18	223	379	117	264	746	57	27	3,211	4,105	78.2	1975
1976	1,222	1	—	298	26	241	24	444	536	255	408	1,014	51	26	4,546	5,287	86.0	1976
1977	1,369	42	—	525	76	249	67	696	502	331	538	1,123	54	35	5,607	6,568	85.4	1977

[r] Revised

[p] Preliminary

[1] Original member, 1960

[2] In 1969 Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.

[3] Joined in 1961

[4] Joined in 1962

[5] Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to other members of the U.A.E. in 1974.

[6] Joined in 1969

[7] Joined in 1971

[8] Joined in 1973

[9] Joined as an associate member in 1973 and became a full member in 1975

Source: U.S. Energy Information Administration, Petroleum Statement, Annual and December issues

U.S. CRUDE OIL IMPORTS FROM OPEC NATIONS
(Thousands of barrels per day)

Year	Saudi Arabia(1)	Kuwait(1)	Neutral Zone(2)	Iran(1)	Iraq(1)	Venezuela(1)	Qatar(3)	Libya(4)	Indonesia(4)	United Arab Emirates(5)	Algeria(6)	Nigeria(7)	Ecuador(8)	Gabon(9)	Total OPEC	Total U.S. Crude Oil Imports(10)	OPEC as a % of Total U.S. Crude Oil Imports	Year
1978	1,142	5	—	554	62	181	64	638	533	385	634	910	38	38	5,184	6,356	81.6	1978
1979	1,347	5	—	297	88	293	31	642	380	281	608	1,069	30	42	5,113	6,519	78.4	1979
1980	1,247	20	—	7	28	154	22	546	307	179	452	831	16	25	3,834	5,220	73.5	1980

(1) Original member, 1960

(2) In 1969 Saudi Arabia and Kuwait agreed to a boundary for administration of the Neutral Zone which had been in dispute until that time. Natural resources from the area were to be shared equally.

(3) Joined in 1961

(4) Joined in 1962

(5) Abu Dhabi joined in 1967. In 1972, Abu Dhabi together with Dubai, Sharjah and several other sheikdoms formed the United Arab Emirates. Abu Dhabi's membership in OPEC was transferred to other members of the U.A.E. in 1974.

(6) Joined in 1969

(7) Joined in 1971

(8) Joined in 1973

(9) Joined as an associate member in 1973 and became a full member in 1975.

(10) Includes crude oil imported into the Strategic Petroleum Reserve.

Source: U.S. Energy Information Administration, Annual Petroleum Statement.
1980 - U.S. Energy Information Administration, December Petroleum Statement.

BASIC PETROLEUM DATA BOOK

SECTION XV. MISCELLANEOUS

Table 1. Estimated Average Number of Employees in Important Segments of the Petroleum Industry

Table 2. Emergency Energy Conservation Measures Having Potential for Sizable Savings in Near Future

Table 3. Conversion Table

BEST AVAILABLE COPY

Section XV
Table 1

ESTIMATED AVERAGE NUMBER OF EMPLOYEES IN IMPORTANT SEGMENTS OF THE PETROLEUM INDUSTRY IN 1980

	Mining	Manufacturing		Transportation		Wholesale	Retail	
	Crude Oil and Natural Gas Extraction	Petroleum Refining	Lubricating Oils and Greases	Pipelines (Except Natural Gas)	Gas Production and Distribution	Petroleum and Petroleum Products	Gasoline Service Stations	Total
Alabama	1,716	380	N.D.	94	2,943	4,111	7,555	16,799
Alaska	5,870	N.D.	0	N.D.	230	350	925	7,375
Arizona	157	110	0	N.D.	959	1,414	7,145	9,785
Arkansas	3,247	746	N.D.	325	2,326	2,556	4,832	14,032
California	32,745	24,587	859	849	9,797	16,220	58,778	143,835
Colorado	18,064	538	29	154	2,206	3,133	9,083	33,207
Connecticut	240	0	90	20	1,310	2,420	8,580	12.660
Delaware	53	923	9	0	404	413	1,508	3,310
Florida	735	188	83	60	2,115	6,948	25,755	35,884
Georgia	76	107	118	482	3,557	6,303	14,176	24,819
Hawaii	0	450	0	0	357	454	3,391	4,652
Idaho	170	0	0	15	495	1,461	2,063	4,204
Illinois	6,500	11,000	800	1,100	9,000	10,800	30,000	69,200
Indiana	743	3,392	383	446	2,830	4,316	15,088	27,198
Iowa	13	0	N.D.	188	1,188	3,984	11,038	16,411
Kansas	13,716	4,022	444	2,043	4,869	2,847	7,121	35,062
Kentucky	2,905	3,494	3	171	2,803	3,013	9,660	22,049
Louisiana	85,779	12,288	447	1,143	6,401	6,236	9,173	121,467
Maine	N.D.	0	0	N.D.	N.D.	1,219	2,461	3,680
Maryland	66	0	232	0	1,439	3,450	12,754	17,941
Massachusetts	15	280	320	N.D.	4.790	3,770	14,060	23,235
Michigan	3,876	2,109	497	250	8,334	6,535	20,879	42,480
Minnesota	N.D.	979	N.D.	216	2,658	2,845	15,636	22,334
Mississippi	9,680	1,260	80	180	2,180	2,980	4,890	21,250
Missouri	150	N.D.	300	280	4.710	7,380	14,260	27,080
Montana	4,636	1,036	0	100	103	1,666	2,691	10,232
Nebraska	723	64	179	111	3,446	1,718	6,676	12,917
Nevada	811	N.D.	N.D.	22	N.D.	492	3,625	4,950
New Hampshire	17	0	0	3	312	656	2,436	3,424
New Jersey	98	8,995	1,027	140	1,913	4,687	18,026	34,886
New Mexico	13,441	1,023	8	231	3,555	1,705	4,408	24,371
New York	2,202	10,352	384	119	7,067	13,879	29,165	63,168
North Carolina	26	14	181	116	2,298	7,327	10,297	20,259
North Dakota	6,314	271	0	146	12	2,151	2,388	11,282
Ohio	9,823	9,547	670	713	7,989	6,380	26,918	62,040
Oklahoma	68,300	8,000	400	2,700	5,000	7,200	5,900	97,500
Oregon	136	0	10	0	1,503(1)	2,302	8,187	12,138
Pennsylvania	4,117	13,054	1,509	722	8,819	10,994	27,651	66,866
Rhode Island	54	0	0	0	842	723	2,106	3,725
South Carolina	0	0	0	0	510	3,621	6,748	10,879
South Dakota	108	17	0	64	136	1,506	2,831	4,662
Tennessee	2,771	1,063	100	184	6,635	17,800	48,733	77,286
Texas	231,170	37,234	442	5,636	27,257	25,505	34,643	361,887
Utah	4,520	879	3	105	2,566	1,807	4,350	14,230
Vermont	0	0	14	0	141	418	1,490	2,063
Virginia	200	200	0	100	2,300	6,500	14,200	23,500
Washington	103	1,625	N.D.	89	1,571	2,993	9,397	15,778
West Virginia	4,500	N.D.	N.D.	N.D.	5,500	2,100	4,200	16,300
Wisconsin	17	150	112	157	2,865	4,547	14,324	22,172
Wyoming	18,077	1,712	2	412	870	1,003	2,980	25,056
Dist. of Columbia	0	0	0	0	41	210	1,034	1,285
TOTAL U.S.	558,680	162,089	9,735	19,886	171,152	217,248	606,215	1,762,825

N.D. = Non-Disclosure

(1) Figure combines pipeline and gas production and distribution categories

Source: U.S. Department of Labor, Bureau of Labor Statistics, "Employment and Earnings."

January 1982

EMERGENCY ENERGY CONSERVATION MEASURES HAVING POTENTIAL FOR SIZEABLE SAVINGS IN NEAR FUTURE

		Maximum Savings, per year, Equivalent Barrels per day*
1.	Reset thermostats controlling room temperature in homes (By 3° summer and winter)	550,000
2.	Improve efficiency of energy utilization in industry (2%)	280,000
3.	Improve efficiency of energy use in commercial buildings (10%)	400,000
4.	Mandatory automobile tuneup every 6 months	140,000
5.	Stop use of hot water for laundering (cold water detergents)	180,000
6.	Reduce speed limits for passenger cars to 50 MPH	250,000
7.	Increase load factors on commercial aircraft to 70% from 50%	120,000
8.	Wider use of car pools (2.3 passengers in lieu of 1.3)	780,000
	Annual Average Total	2,700,000
	Winter Rate Total	3,300,000
	Summer Rate Total	2,100,000

---

*Total of all petroleum products plus natural gas plus other energy derived from petroleum, such as electricity produced by oil, rounded to two significant figures. Natural gas saved can be used to substitute for oil, since many oil users can burn both oil and gas.

Source: U.S. Treasury Department

THE FOLLOWING EQUIVALENTS ARE DERIVED FROM THE USE OF BRITISH THERMAL UNIT HEAT VALUES[1]

		Crude Petroleum (42 gal. barrel)	Anthracite Coal (short ton)	Bituminous Coal (short ton)	Natural Gas-Dry (1000 cu. ft.)	Distillate Fuel Oil 42 gal. barrel)	Residual Fuel Oil (42 gal. barrel)	Liquefied Pet. Gas (42 gal. barrel)
Crude Petroleum	42 Gal. Bbl. equals	–	0.228	0.221	5.604	0.996	0.923	1.446
Anthracite Coal	Short Ton equals	4.379	–	0.969	24.541	4.361	4.040	6.333
Bituminous Coal and Lignite	Short Ton equals	4.517	1.031	–	25.314	4.498	4.167	6.532
Natural Gas-Dry	1000 Cu. Ft. equals	0.178	0.041	0.040	–	0.178	0.165	0.258
Distillate Fuel Oil	42 Gal. Bbl. equals	1.004	0.229	0.222	5.628	–	0.927	1.452
Residual Fuel Oil	42 Gal. Bbl. equals	1.064	0.248	0.240	6.074	1.079	–	1.567
Liquefied Petroleum Gas	42 Gal. Bbl. equals	0.692	0.158	0.153	3.875	0.689	0.638	–
1/ B.T.U. Heat Values as used by Bureau of Mines	1000s	5,800	25,400	26,200	1,036	5,825	6,287	4,011

Other Refined Products' B.T.U. Values (1000s): Gasoline 5,248; Kerosine 5,670; Lubricants 6,064.8; Wax 5,537.3; Asphalt 6,636; Miscellaneous 5,796; Natural Gasoline 4,620 Per 42 Gallon Barrel

GALLON, BARREL, POUND AND TON EQUIVALENTS FOR CONVERTING MEASURES OF CRUDE PETROLEUM AND REFINED PETROLEUM PRODUCTS

	Gravity at 60°F [2]	Gallons Per Pound	Pounds Per Gallon	Pounds Per 42 Gal. Barrel	Barrels Per Short Ton 2,000 Pounds	Barrels Per Metric Ton 2,204.6 Pounds	Barrels Per Long Ton 2,240 Pounds
Crude Petroleum (Foreign)	25.6	.13333	7.500	315	6.349	6.998	7.111
Crude Petroleum (Domestic)	36.0	.14217	7.034	295	6.770	7.463	7.582
Gasoline and Naphtha	59.5	.16215	6.167	259	7.721	8.511	8.648
Kerosine	43.0	.14812	6.751	284	7.053	7.775	7.900
Distillate Fuel Oil	31.3	.13817	7.237	304	6.580	7.253	7.369
Residual Fuel Oil	18.0	.12687	7.882	331	6.041	6.660	6.766
Lubricating Oil	25.6	.13333	7.500	315	6.349	6.998	7.111
Lubricating Grease	33.4	.13996	7.145	300	6.665	7.346	7.464
Wax (Refined and Unrefined)	45.0	.14982	6.675	280	7.134	7.864	7.990
Asphalt	5.6	.11634	8.596	361	5.540	6.106	6.205
Coke	–	.10479	9.543	401	4.990	5.500	5.589
Road Oil	14.5	.12390	8.071	339	5.900	6.503	6.608
Petroleum Jelly and Petrolatum	33.4	.13996	7.145	300	6.665	7.346	7.464
Liquefied Petroleum Gas	–	.22104	4.524	190	10.526	11.603	11.789
Gilsonite	5.0	.11583	8.634	363	5.515	6.080	6.177

[2] For each product the gravity listed is assumed to be representative of the average

Still Gas 3,600 Cu. Ft. = One 42 Gallon Barrel
U.S. Gallon = .833 Imperial Gallon
Imperial Gallon = 1.2 U.S. Gallons

Source: ASTM-IP Petroleum Measurement Tables

Section XV
Table 3